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United States  
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Agriculture

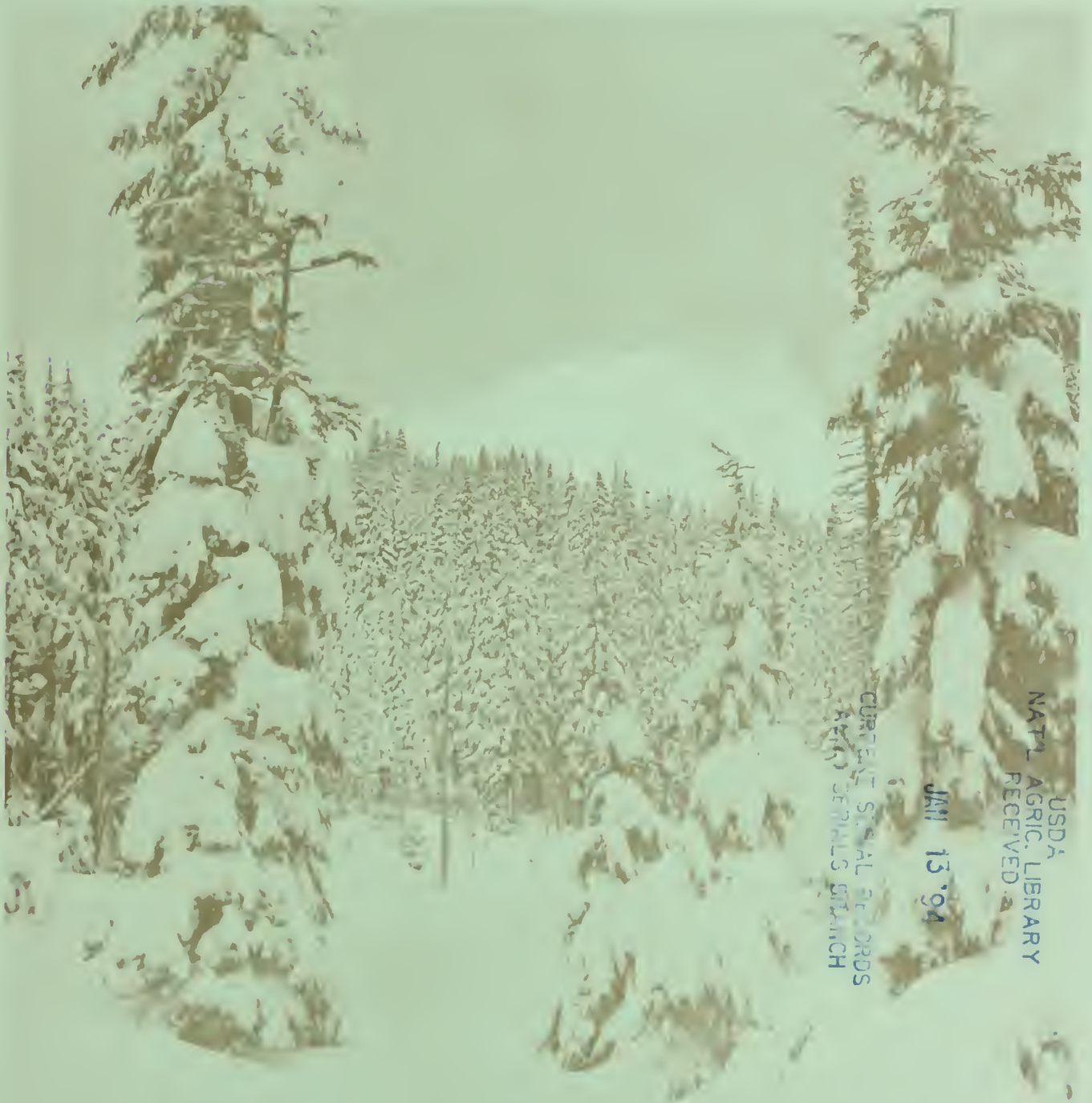
Soil  
Conservation  
Service

Boise  
Idaho



# WATER SUPPLY OUTLOOK FOR IDAHO

in Cooperation with Idaho State Department of Water  
Resources, Idaho Soil Conservation Districts, and NOAA,  
National Weather Service



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January 1, 1985

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Up to 75 percent of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data effecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent as surveyed and marked locations in mountain areas. These measurements are repeated in the same location near the same dates each year. Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Snotel (snow telemetry) networks of automatic snow water equivalent and related data sensing devices, are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. A joint Soil Conservation Service and National Weather Service report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs. This report can be obtained from Soil Conservation Service, National Technical Center, Rm. 510, 511 NW Broadway, Portland, Oregon 97209.

In California, the program is coordinated by the California Department of Water Resources. The Canadian provinces of British Columbia and Alberta have comparable programs.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states.

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	2490 W. 26th Ave., Diamond Hill, Bldg. A, Denver, Colorado 80211
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	Room 443, Federal Building, 10 East Babcock, Bozeman, Montana 59715
Nevada	50 S. Virginia Street, P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	Federal Office Building, 100 East B. Street, Casper, Wyoming 82601

WATER SUPPLY OUTLOOK  
FOR  
IDAHO  
and  
Federal-State-Private Cooperative Snow Surveys

Issued by  
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Washington, D. C.

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Soil Conservation Districts  
NOAA-National Weather Service  
Idaho Power Company  
FMC Corporation  
Washington Water Power Company

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Soil Conservation Service  
Snow Survey Office  
Rm. 345, 304 No. 8th Street  
Boise, Idaho 83702





# WATER SUPPLY OUTLOOK for IDAHO



## GENERAL STATEMENT FOR JANUARY 1, 1985

Snow surveys taken near January 1, 1985 show snow pack conditions are above to well above average throughout the state for this time of year. The exceptions are in the Little Lost River drainage and the Beaver-Camas Creek drainages near Dubois where snow pack conditions are near normal. Current conditions range from a low of 98 percent of average on the Beaver-Camas Creek drainage to a high of 190 percent of normal on the St. Joe River drainage in north Idaho. Many stations in the Idaho Panhandle from Orofino north reported record or near record high snow water contents for January 1.

Snow accumulation began earlier than normal across most of Idaho and continued to build rapidly as a result of above normal precipitation and cold temperatures during October and November. Precipitation was below normal in December, however, except for areas in the north where stations continued to report 110 to 130 percent of normal for the north. Central Idaho precipitation was 75 to 90 percent of normal for December while the southern part of the state reported only 50 percent of average. For the state, precipitation was about 75 percent of the norm.

December was very cold. Temperatures across the entire state averaged well below normal. Twin Falls recorded the coldest December since their records began while Boise had the third coldest ever. The lowest temperature in the state was at Stanley at a chilly 38 degrees below zero.

Reservoir carryover storage is 102 percent of average in 17 key reservoirs across the state, ranging from 33 percent of normal in Coeur d'Alene Lake to 312 percent of normal in Salmon Falls Creek Reservoir.

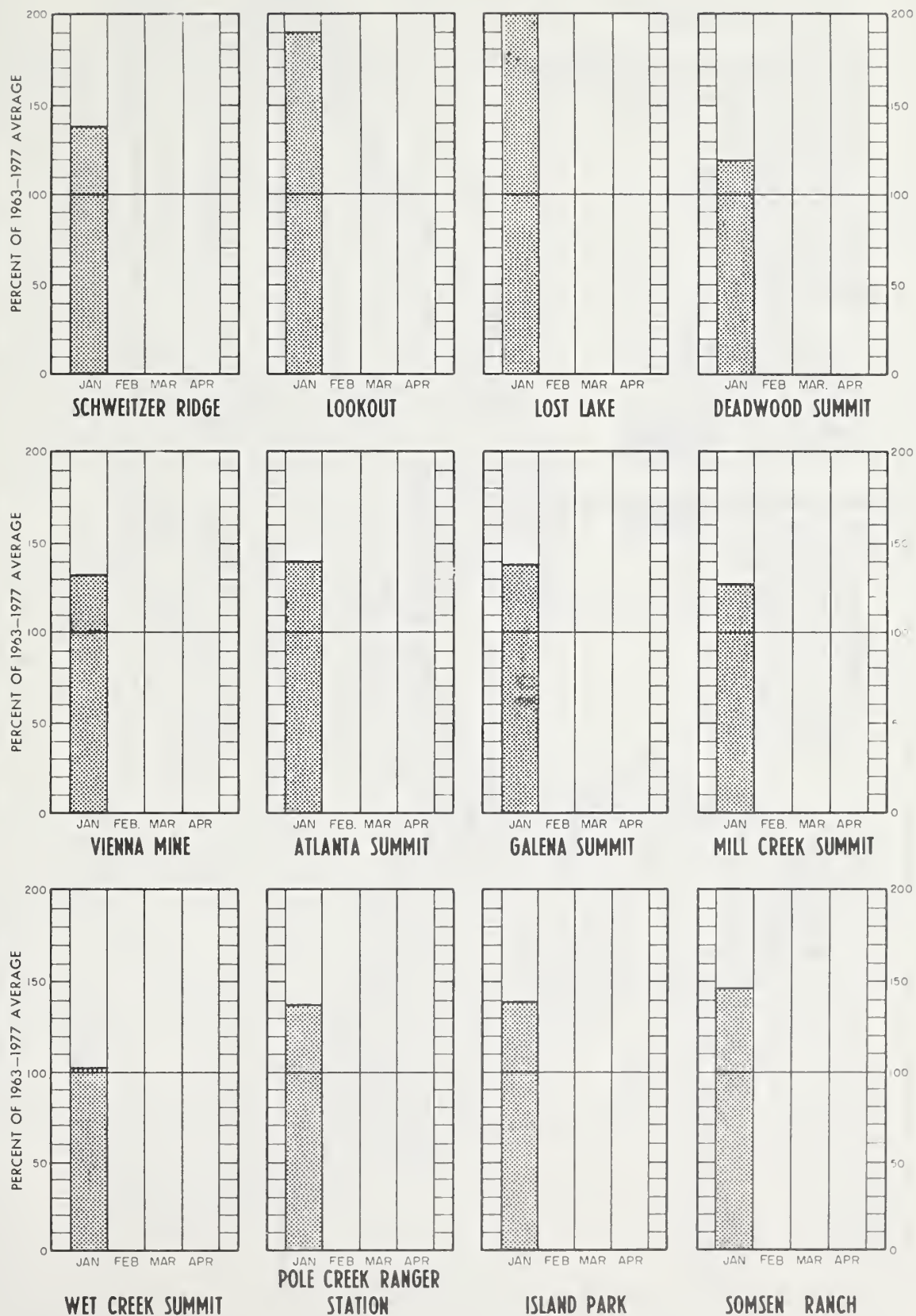
In general, soil moisture conditions are near normal in northern and central Idaho and above normal in the southern and eastern part of the state.

Streamflow forecasts for the April-July period are above to well above normal throughout the state ranging from a low of 106 percent of normal on the Salmon near Salmon to 136 percent on the Clearwater River at Spalding. Near normal precipitation for the remainder of the season will assure Idaho of a good water supply for 1985.



# SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average



## COMPARISON of SNOW COVER

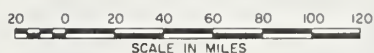
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1961-80 Average
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	15	244	157
Pend Oreille River	111	176	141
Clark Fork River	72	164	134
Clark Fork above Blackfoot, Mt	32	151	110
Lower Clark Fork below Missoula, Mt	11	208	180
Blackfoot River, Mt	16	129	124
Flathead River	39	192	150
North Fork Flathead	7	212	144
Middle Fork Flathead	9	274	158
South Fork Flathead	11	166	150
Bitterroot River	13	156	121
Priest River	4	184	158
Spokane River	7 - 10	229	187
Rathdrum Creek	-	-	-
Coeur d'Alene River	3 - 5	266	183
St. Joe River	4 - 5	213	190
<u>LOWER SNAKE RIVER BASIN</u>			
Clearwater River	15 - 16	198	172
North Fork Clearwater	10 - 12	198	185
Lochsa	3 - 4	193	146
Selway	2	195	140
Salmon River	16 - 17	127	139
Salmon above Salmon	5	108	132
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	2 - 3	90	105
Big Lost River	4	69	124
Little Wood River	4	80	120
Big Wood River	14 - 18	82	132
Big Wood River above Magic Reservoir	12 - 13	89	130
Camas Creek	2 - 5	65	145
Canyon Creek	3	61	--
Boise River	15	80	137
Middle Fork Boise	7 - 8	92	134
South Fork Boise	7 - 9	78	132
Payette River	14	120	148
South Fork Payette	6	93	131
North Fork Payette	8	145	160
Weiser River	4 - 6	136	154
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	1 - 2	55	149
Goose-Trapper Creeks	-	-	-
Salmon Falls Creek	7 - 8	48	131
Bruneau River	2 - 5	71	155
Owyhee River above Owyhee Lake	3 - 6	64	179
<u>UPPER SNAKE RIVER BASIN</u>			
Upper Snake above Palisades Reservoir	17	104	136
Snake above Jackson, Wy	8	119	150
Gros Ventre, Wy	2	82	99
Greys Rivers, Wy	1	71	132
Salt River, Wy	4	75	128
Camas-Beaver Creeks	2 - 3	83	98
Henrys Fork River	10 - 11	112	138
Teton River	6 - 7	99	142
Willow Creek	6 - 8	75	151
Blackfoot River	2 - 3	80	132
<u>GREAT BASIN</u>			
Bear River	2	71	160
Montpelier Creek	4 - 6	91	143
Mink Creek	1 - 3	54	122
Cub River	3	61	149

# SNOW WATER DEPTHS

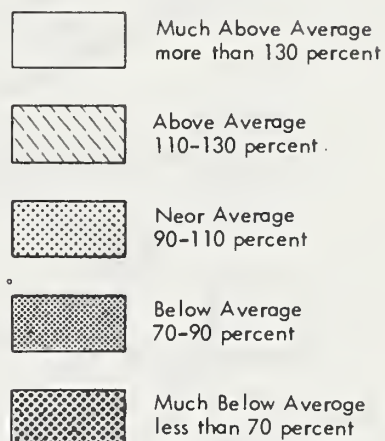
As percent of 1963-77 15 year average

JANUARY 1, 1985

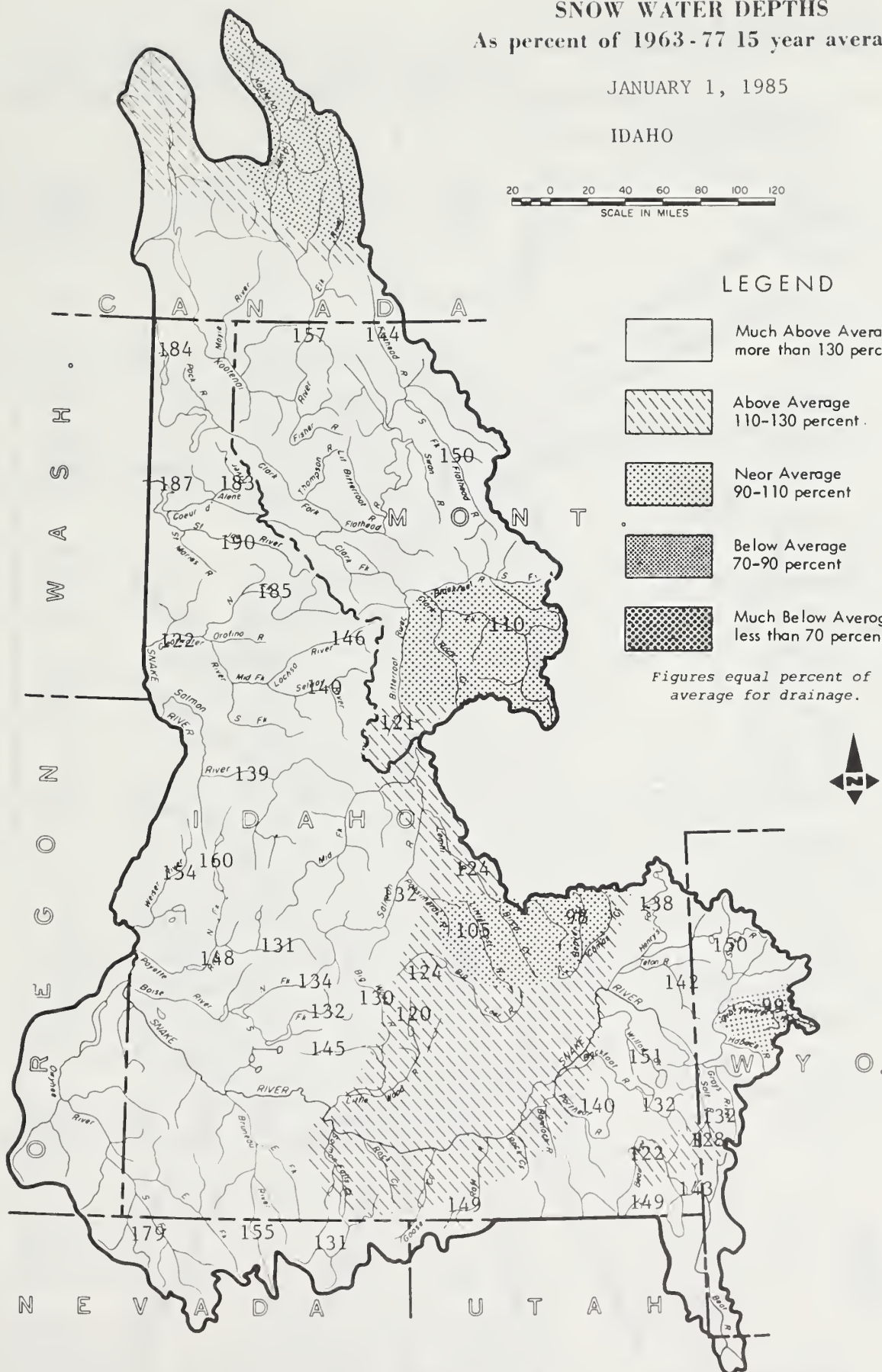
IDAHO



## LEGEND



Figures equal percent of average for drainage.



## RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1961-80 Average
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2264.0	2611.0	2299.0
Flathead	1791.0	1017.0	1096.0	1325.0
Pend Oreille	1155.1	431.0	483.3	331.2
Noxon	334.6	318.0	318.4	314.1
Spokane				
Coeur d'Alene	225.1	49.9	88.5	142.6
SNAKE BASIN				
Snake				
Jackson Lake	624.4	281.3	497.1	540.0
Palisades	1200.0	1063.0	1101.3	817.4
American Falls	1673.0	1277.8	1140.5	1296.9
Island Park	127.0	80.1	111.6	86.5
Grassy Lake	15.2	12.9	13.8	9.8
Brownlee	980.2	698.1	938.4	818.5
Goose-Trapper Creeks				
Oakley	74.4	40.7	40.0	22.6
Salmon Falls Creek				
Salmon Falls	182.6	130.4	72.8	41.6
Big Lost				
Mackay	44.2	30.0	30.1	25.5
Big Wood				
Magic	191.5	133.3	125.8	82.1
Little Wood				
Little Wood	30.0	19.4	12.8	12.7
Fish Creek				
Carey Valley	14.4	5.7	8.85	--
Boise				
Anderson Ranch	423.2	288.4	296.3	270.7
Arrowrock	286.6	136.4	198.2	202.5
Lucky Peak	278.2	26.6	164.1	49.8
Lake Lowell (Deer Flat)	169.0	124.4	132.7	108.5
Owyhee				
Owyhee	715.0	582.9	617.4	312.8
Payette				
Cascade	653.2	401.9	443.8	353.4
Deadwood	161.9	102.9	93.9	68.7
Weiser				
Mann Creek	11.1	3.7	4.9	--
Clearwater				
Dworshak	2016.0	1157.6	1011.7	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1095.3	1135.0	973.3
Montpelier Creek	4.05	2.22	2.45	--

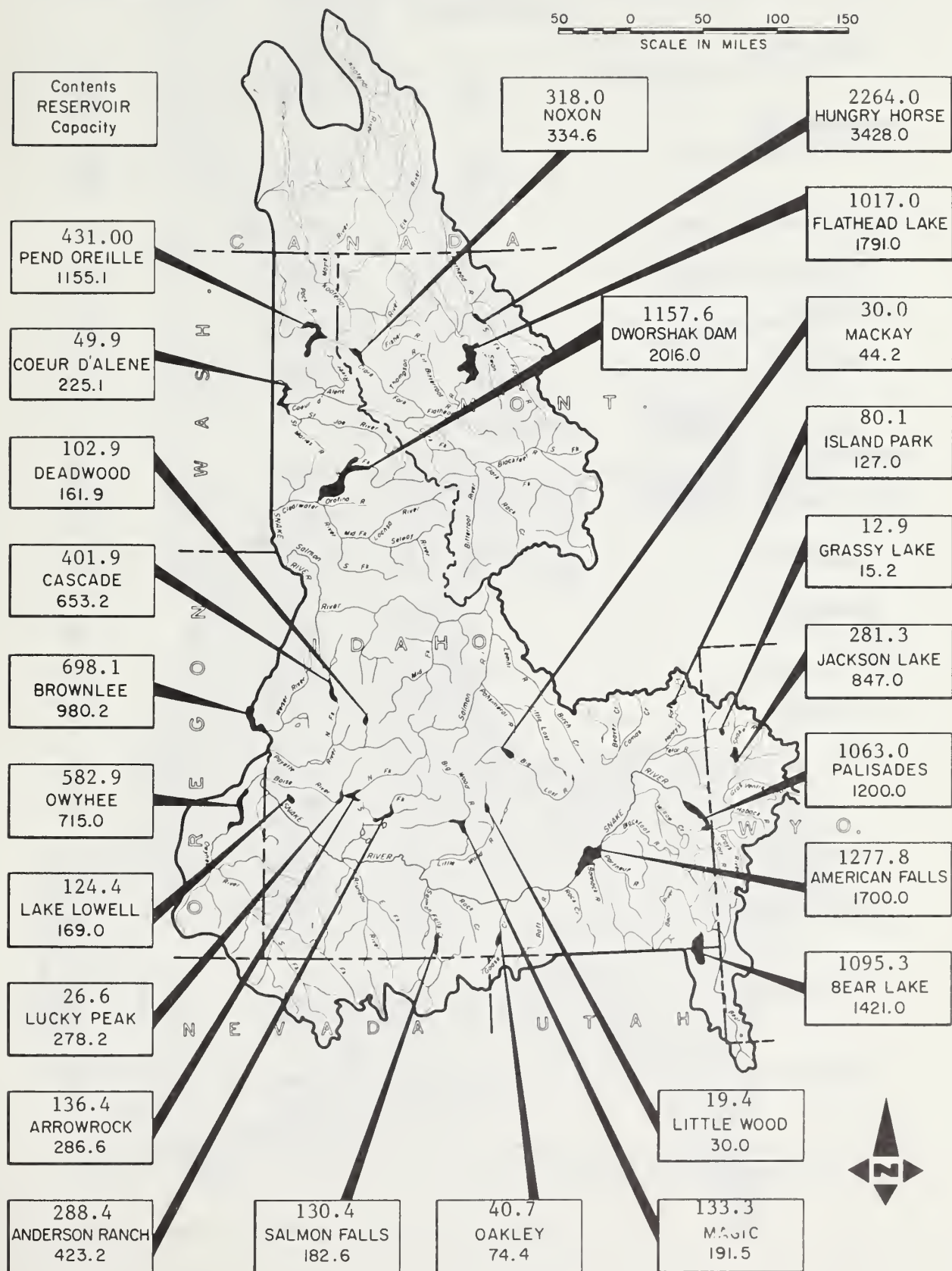


# RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1985

50 0 50 100 150  
SCALE IN MILES





## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST <sup>c</sup>		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average <sup>†</sup>
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	9060	105	Apr-Sep	--	8602
		7900	105	Apr-Jul	--	7498
		6353	105	Apr-Jun	--	6051
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	16100	118	Apr-Sep	--	13575
		14600	118	Apr-Jul	--	12351
		12500	118	Apr-Jun	--	10570
Pend Oreille Lake Inflow		16400	118	Apr-Sep	--	--
				Apr-Jul	--	--
Priest River						
Priest River 1/	(at)	1190	134	Apr-Sep	--	895
		1115	134	Apr-Jul	--	841
SPOKANE RIVER						
Post Falls 2/	(at)	3800	133	Apr-Sep	--	2860
		3674	133	Apr-Jul	--	2756
St. Joe River						
Calder	(at)	1680	131	Apr-Sep	--	1294
		1608	131	Apr-Jul	--	1225
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1120	127	Apr-Sep	--	885
Palisades Inflow 3/		4750	124	Apr-Sep	--	3798
Heise 4/	(nr)	4880	120	Apr-Sep	--	4066
		4158	120	Apr-Jul	--	3465
Blackfoot 5/	(nr)	6229	116	Apr-Sep	--	5430
		5138	116	Apr-Jul	--	4429
Henry's Fork						
Ashton 6/	(nr)	780	109	Apr-Sep	--	714
		582	110	Apr-Jul	--	529
Rexburg 7/	(nr)	1650	112	Apr-Sep	--	1475
		1290	112	Apr-Jul	--	1153
Falls River						
Squirrel	(nr)	403	110	Apr-Jul	--	366
Teton						
South Leigh Creek	(ab)	271	114	Apr-Sep	--	194
		167	115	Apr-Jul	--	145
St. Anthony	(nr)	511	110	Apr-Sep	--	465
		412	110	Apr-Jul	--	375
Portneuf River						
Topaz	(at)	130	128	Mar-Sep	--	102.1
		105	128	Mar-Jul	--	82.2
Oakley Reservoir Inflow		40.2	133	Apr-Sep	--	30.2
		36.2	133	Apr-Jul	--	27.2
Salmon Falls Creek						
San Jacinto	(nr)	112	120	Mar-Sep	--	94.0
		108	121	Mar-Jul	--	89.3
		107	121	Mar-Jun	--	84.4
Bruneau River						
Hot Springs	(nr)	315	130	Mar-Sep	--	243
		301	130	Mar-Jul	--	232

(c) Assuming normal meteorological conditions.

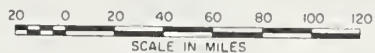
+1961-1980 period

# PROSPECTIVE STREAMFLOW

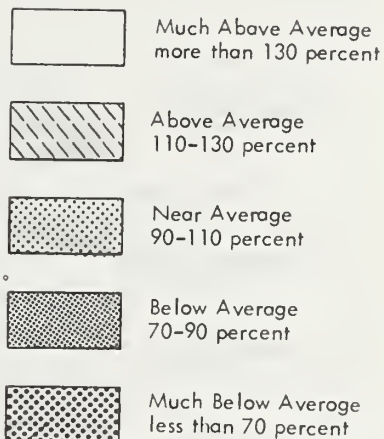
*Based on Snow Surveys made on approximately*

JANUARY 1, 1985

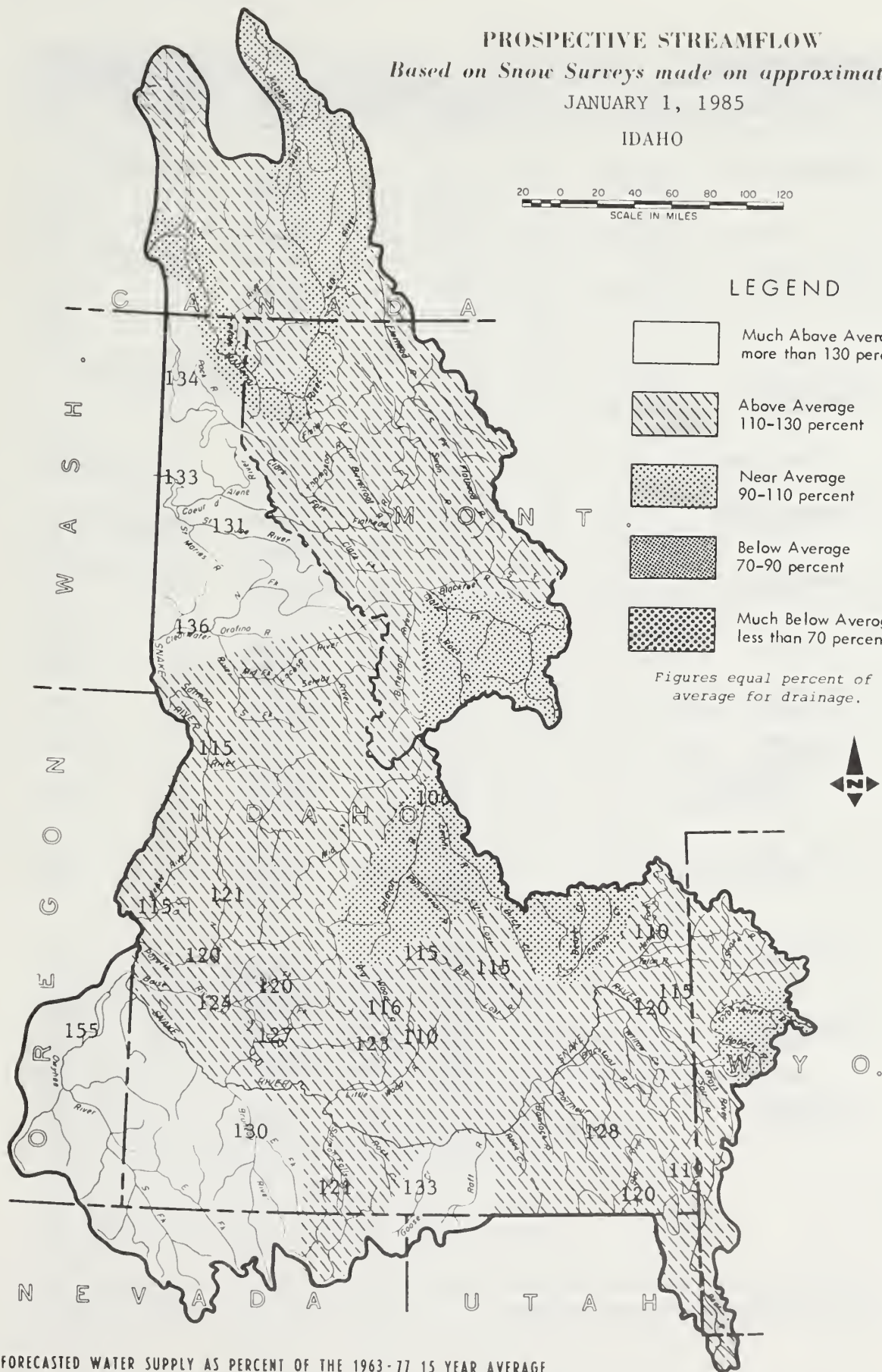
IDAHO



## LEGEND



*Figures equal percent of  
average for drainage.*



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST <sup>c</sup>		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average <sup>†</sup>
<u>Little Lost River</u>						
Howe	(nr)	48.5	115	Apr-Sep	--	42.2
		37.6	115	Apr-Jul	--	32.6
Wet Creek	(bl)	47.3	122	Apr-Sep	--	38.8
		38.3	122	Apr-Jul	--	31.4
		30.5	122	Apr-Jun	--	25.0
<u>Big Lost River</u>						
Howell Ranch	(at)	243	115	Apr-Sep	--	211
		213	115	Apr-Jul	--	186
		166	115	Apr-Jun	--	144
Mackay 8/	(nr)	211	115	Apr-Sep	--	184
<u>Big Wood River</u>						
Bellevue	(nr)	223	116	Apr-Sep	--	193
		208	116	Apr-Jul	--	180
Magic Reservoir		363	123	Apr-Sep	--	295
Inflow 9/		344	123	Apr-Jul	--	280
<u>Little Wood River</u>						
Carey 10/	(nr)	110	110	Apr-Sep	--	101.0
		102	110	Apr-Jul	--	93.1
		91	110	Apr-Jun	--	82.6
<u>Boise River</u>						
Twin Springs	(nr)	846	120	Apr-Sep	--	705
		785	120	Apr-Jul	--	650
Boise 11/	(nr)	1948	124	Apr-Sep	--	1571
		1802	124	Apr-Jul	--	1454
		1586	124	Apr-Jun	--	1279
<u>South Fork</u>						
Anderson Dam 12/	(at)	749	127	Apr-Sep	--	590
		700	127	Apr-Jul	--	551
<u>Owyhee River</u>						
Gold Cr., Nv 13/	(nr)	32	137	Apr-Jul	--	27.1
Owyhee, Nv 13/	(nr)	120	140	Apr-Jul	--	82.1
Lake Owyhee		587	155	Apr-Sep	--	376
net inflow 14/		541	155	Apr-Jul	--	349
Rome	(at)	579	154	Apr-Jul	--	376
<u>Payette River</u>						
Horseshoe Bend 15/	(nr)	2220	120	Apr-Sep	--	1805
		2001	120	Apr-Jul	--	1668
<u>North Fork</u>						
Cascade 16/	(at)	669	121	Apr-Sep	--	553
		627	121	Apr-Jul	--	518
Banks 16/	(nr)	861	121	Apr-Sep	--	712
		812	121	Apr-Jul	--	671
<u>South Fork</u>						
Lowman	(at)	525	119	Apr-Sep	--	497
		524	119	Apr-Jul	--	441
Deadwood Reservoir Inflow		164	117	Apr-Jul	--	144
<u>Weiser River</u>						
Weiser	(nr)	492	115	Apr-Sep	--	442
		460	115	Apr-Jul	--	399

(c) Assuming normal meteorological conditions.

+1961-19080 period

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR			PAST RECORD	
		FORECAST <sup>c</sup>		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average <sup>d</sup>
<u>Salmon River</u>	Whitebird (at)	7900	115	Apr-Sep	--	7188
		7140	115	Apr-Jul	--	6497
Salmon	(nr)	1120	106	Apr-Sep	--	1123
		956	106	Apr-Jul	--	960
<u>Clearwater River</u>	Orofino (at)	6900	130	Apr-Sep	--	5308
		6390	130	Apr-Jul	--	5029
Spalding	(at)	11500	136	Apr-Sep	--	8672
		10900	136	Apr-Jul	--	8192
<u>North Fork Clearwater</u>	Dworshak Reservoir Inflow	4029	135	Apr-Sep	--	3040
		3790	135	Apr-Jul	--	2845

## GREAT BASIN

<u>BEAR RIVER</u>						
Harer	(at)	400	129	Apr-Sep	--	310
<u>Montpelier Creek</u>						
Montpelier	(nr)	16.5	119	Apr-Sep	--	13.9
<u>Cub River</u>						
Preston	(nr)	62.2	120	Apr-Sep	--	51.8
		56.2	120	Apr-Jul	--	46.8

- 1/ Observed flow corrected for storage in Priest Lake.
- 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
- 3/ Corrected for storage in Jackson Lake.
- 4/ Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henrys Lake, Grassy Lake and diversions between Heise and Blackfoot.
- 6/ Corrected for storage in Henrys Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henrys Lake and Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
- 10/ Corrected for storage in Little Wood Reservoir.
- 11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 12/ Corrected for storage in Anderson Ranch Reservoir.
- 13/ Corrected for storage in Wildhorse Reservoir.
- 14/ From Bureau of Reclamation records of inflow.
- 15/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 16/ Corrected for storage in Cascade Reservoir.

(c) Assuming normal meteorological conditions.

+1961-1980 period



## SNOW

SNOW			THIS YEAR			PAST RECORD		
DRAINAGE BASIN and or SNOW COURSE			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		
NAME & DRAINAGE		Elevation				Last Year	Average	
Above Burke		Coeur d'Alene	4100	12/28	67	14.2	5.8	8.7*
Above Gilmore		Lemhi	8240	1/03	23	5.9	--	3.7*
Above Roland		St. Joe	4350	1/01		21.2e	--	10.8*
Afton Rgr. Sta.	(Wy)	Salt River	6240	12/27	16	3.0	4.6	2.1
Antelope Ridge		Owyhee	6180	12/31	19	5.4	9.1	3.2*
Arizona	(Wy)	Snake	6820	1/03	42	9.7	10.5	7.9
Aspen Grove		Willow	6500	12/27		7.3e	9.8e	5.1*
Aster Creek	(Wy)	Snake	7750	1/02	76	21.1	13.5	12.5
Atlanta Summit		Boise	7600	1/01	69	20.5	21.8e	14.6*
Atlanta Townsite		Boise	5370	1/01	34	7.3	--	--
Bad Bear		Boise	4940	12/27	33	9.1	9.0	5.4*
Badger Gulch		Trapper	6660	1/01		5.3e	--	4.7*
Banner Summit		Payette	7040	1/01		19.6e	16.6e	--
Base Camp	(Wy)	Snake	7030	1/03	41	10.7	9.5	8.6
Bear Basin		Little Salmon	5350	1/01		11.6e	10.0e	--
Bear Canyon		Big Lost	7900	1/01		8.0e	9.5e	6.5*
Bear Saddle		Mann Creek	6180	1/01		16.6e	15.2e	--
Bennett Mountain		Canyon Creek	6560	12/29	38	11.3	15.6	--
Benton Meadow		Priest	2370	1/03	28	6.4	2.9	3.0
Benton Spring		Priest	4920	1/03	55	15.8	8.6	8.4
Big Creek Summit		Salmon	6580	1/01		25.2e	16.5	14.6*
Big Springs		Henrys Fork	6400	12/31	44	10.9	9.3	8.0
Birch Creek		Willow	6800	12/27	21	5.4	7.3	3.7*
Black Bear	(Mt)	Madison	7950	12/27	70	21.6	19.0	16.3
Black Moose		Henrys Fork	8160	12/31		21.7e	--	16.4*
Blue Ledge Mine		W. Camas	6900	1/01		7.1e	--	7.7*
Blue Ridge		Blackfoot	6780	12/27	42	12.3	14.9	--
Bogus Basin		Payette	6340	12/27	48	14.8	18.5	9.3
Bogus Basin Road		Boise	5540	12/27	19	4.3	9.7	2.7*
Bone		Willow	6200	12/27	19	4.0	5.6	2.6*
Boulder Creek		Weiser	5440	12/28	51	12.5	9.6	9.9
Breezy Saddle		Clearwater	5010	1/02	93	24.6	10.0	--
Brockman Station		Willow	6430	12/27	21	5.0	7.9	--
Brundage Mountain		Little Salmon	7560	1/01		31.2e	20.4e	20.1
Camas Creek Divide		Big Wood	5710	12/29	28	7.7	14.7	--
Camp Creek		Beaver	6580	12/28	15	2.6	4.4	4.4
Cayuse Airstrip		Clearwater	3500	1/01	42	7.9	5.0	5.4*
CCC Camp	(Wy)	Salt	7000	12/31	33	6.8	8.4	5.1
Chimney Creek		Big Wood	6400	12/29	32	8.4	--	--
Clear Creek Meadows		Raft	9420	1/01		14.8e	--	8.7
Copper Basin		Big Lost	7640	1/01		4.5e	8.8e	3.7*
Copper Ridge		Coeur d'Alene	4820	1/01		21.0e	--	10.4
Couch Summit		Boise	6840	12/29	38	9.7	13.6	7.1*
Cozy Cove		Deadwood	5380	12/28	39	8.1	10.2	7.0*
Crab Creek		Camas-Beaver	6860	12/29	27	6.1	--	--
Crater Meadows		Clearwater	5960	1/03	97	28.3	18.2	18.0*
Crooked Fork		Lochsa	3610	1/03	37	6.8	4.9	5.3*
Cub River Ranger Station		Cub	5450	12/27	21	5.0	11.2	3.5*
Darby Canyon	(Wy)	Teton	8250	12/27	50	13.5	14.1	9.7
Deadline		Salmon Falls	7400	1/01		9.0e	21.4	8.7*
Deadline South		Salmon Falls	7450	1/01		10.7e	22.9	9.7*
Deadman Gulch		Boise	5600	12/20	49	12.0	--	7.3
Deadwood Airstrip		Deadwood	5360	1/01		8.2e	11.0e	6.4*
Deadwood Summit		Deadwood	6860	1/01		25.6e	23.2	21.5*
Dollarhide Summit		Big Wood	8420	1/01	49	13.2	18.2e	11.6*
East Ragged Saddle		Rathdrum	3740	1/07	62	19.8	--	--
Elk Butte		Clearwater	5550	1/02	102	27.2	14.6	--
Emigrant Summit		Bear	7390	12/26	43	11.4	21.1e	9.6*
Fish Lake Airstrip		Lochsa	5650	1/02	91	23.8	12.6	16.9*
Forty-nine Meadows		Clearwater	4830	1/02	86	22.0	10.4	12.1*
Four Mile Meadows	(Wy)	Snake	7860	1/01		6.0e	--	5.3
Franklin Basin		Cub	8040	12/27	50	15.9	20.7	10.3
Franklin Basin Snotel		Cub	8170	12/27	56	16.6	22.8	--
Freds Mountain		Teton	8150	12/27		14.4e	--	10.4
Galena		Big Wood	7440	12/31	43	11.4	11.5	7.7
Galena Snotel		Big Wood	7470	1/01	45	13.0	12.3	--
Galena Summit		Big Wood	8780	12/31	54	14.1	14.1	10.2
Garfield Ranger Station		Little Wood	6560	12/28	24	5.1	7.2	4.0*
Gibbons Pass	(Mt)	Bitterroot	7100	12/24	51	11.9	8.9	9.4
Giveout		Montpelier	6860	1/01		7.7e	8.3e	4.9e
Glade Creek	(Wy)	Snake	7040	1/01	59	15.3	13.3	--
Goat Creek	(Nv)	Salmon Falls	8880	1/01		12.1e	16.8	7.4*
Gold Creek	(Nv)	Owyhee	6600	1/01		1.9e	--	1.9

(b) 1961-1980, 20 year period. \*Estimated 1961-1980 20 year average.

(e) Snow course data estimated from automated Snotel readings.



## SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
						Last Year	Average
NAME & DRAINAGE		Elevation					
Graham Guard Sta.	Boise	5690	12/28	39	8.9	--	6.7*
Graham Ranch	Big Wood	6270	12/31	36	9.5	9.5	5.4
Grassy Lake	(Wy) Henrys Fork	7265	1/02	80	22.3	18.3	14.6
Greys Boundary	(Wy) Greys	5720	12/27	26	5.8	8.2	4.4
Grover Park Divide	(Wy) Salt	7000	12/31	31	6.0	8.4	4.8
Heart Lake Trail	(Mt) Clark Fork	4800	1/02	69	19.0	8.6	8.5
Hemlock Butte	Clearwater	5810	1/03	123	35.6	19.4	20.5*
Hilts Creek	Little Lost	8000	12/28	23	5.1	4.6	--
Hoodoo Basin	(Mt) Clark Fork	6000	1/02	118	37.0	18.1	20.1
Hoodoo Creek	(Mt) Clark Fork	5900	1/02	113	33.6	17.3	17.8
Howell Canyon	Marsh Creek	7980	1/01		13.9e	25.2e	10.5
Humboldt Gulch	Coeur d'Alene	4250	12/28	59	13.2	3.6	--
Hummingbird Springs(Nv)	Jarbridge	8870	1/01		15.5e	--	9.7*
Hyndman Creek	Big Wood	7440	1/01		10.0e	7.8e	--
Idaho City Townsite	Boise	4000	12/27	18	4.5	4.0	--
Indian Meadows	Teton	8240	12/27	74	21.8	22.2	15.4*
Island Park	Henrys Fork	6290	12/31	39	8.9	7.9	6.4
Jackpine Creek	(Wy) Teton	7350	12/27	49	13.1	12.0	--
Jackson Peak	Boise	7070	12/28	60	17.1	16.8	14.2*
Kellogg Peak	Coeur d'Alene	5560	1/01		25.9e	--	14.7*
Kilgore	Camas Creek	6320	12/29	22	4.8	5.8	4.4
Lake Fork	Payette	5290	1/05	38	10.2	9.1	7.4
Lakeview Canyon	(Mt) Beaverhead	6930	12/31	24	5.9	5.1	5.4
Lakeview Ridge	(Mt) Beaverhead	7400	12/31	23	5.7	5.1	4.8
Langford Flat Creek	Salmon Falls	5980	12/28	16	3.0	10.1	--
Lava Creek	Willow	7350	12/27	32	8.0	11.9	5.0*
Lemhi Ridge	(Mt) Beaverhead	8100	12/27	24	5.4	5.0	5.0
Le Bois	N.F. Payette	4900	1/05	46	11.2	--	--
Lewis Lake Divide	(Wy) Snake	7850	1/01	91	24.7	22.5	17.0
Liberty Spring	Mink	8600	1/01		17.5e	--	14.7*
Little Beaver	Montpelier	6970	1/01		9.0e	9.9	5.7*
Little Camas Flat	Boise	4940	12/29	20	4.7	8.6	--
Lolo Pass	Lochsa	5240	1/03	73	18.5	8.0	12.1*
Lookout	Coeur d'Alene	5140	1/02	94	27.3	11.2	14.4
Lost Lake	Clearwater	6110	1/02	144	44.8	20.8	22.2*
Lost-Wood Divide	Big Lost	7900	1/01		11.6e	15.3	10.5
Lower Home Canyon	Montpelier	7640	1/01		7.6e	--	5.6*
Lower Pebble	Portneuf	5780	12/27		7.0e	--	5.2*
Lower Sands Creek	Coeur d'Alene	3120	1/01		15.7e	--	8.8*
Madison Plateau	(Mt) Madison	7750	12/27	45	11.8	10.0	9.5
Magic Mountain	Rock Creek	6880	1/01		7.2e	20.4	7.4
Mascot Mine	Big Wood	7780	1/01		9.7e	7.8	6.1*
McRenolds Reservoir	Teton	6720	12/27	41	10.4	10.2	7.8*
Meadow Lake	Lemhi	9150	1/03	35	9.2	--	8.4*
Mill Creek Summit	Salmon	8800	1/01		12.8e	10.6	10.1*
Mink Creek	Portneuf	6410	12/27		10.2e	--	7.3*
Montpelier Creek	Montpelier	6540	1/01		5.5e	5.7	3.3*
Moonshine	Little Lost	7440	12/29	23	4.8	--	4.4*
Moores Creek Summit	Boise	6100	12/27	62	19.2	24.4	13.1
Moose Creek	N.F. Salmon	6200	12/26	34	8.0	7.6	7.1*
Moran	(Wy) Snake	6750	1/03	28	6.3	7.0	5.4
Morgan Creek	Salmon	7600	1/01		8.7e	5.9	5.9*
Mount Baldy	Big Wood	8920	12/31	43	10.2	13.6	8.5
Mud Creek	Willow	7100	12/27	47	13.2	15.2	--
Mud Flat	Owyhee	5730	12/31	25	6.0	10.0	2.8*
Muldoon	Little Wood	6320	12/28	17	3.6	4.0	3.1*
Packsaddle Spring	Teton	8200	12.27	54	16.4	17.4	--
Pebble Creek	Portneuf	6550	12/27		8.7e	--	6.0*
Pierce Ranger Sta.	Clearwater	3080	12/27	30	6.0	4.0	4.7*
Pine Creek Pass	Teton	6810	12/31	42	10.4	10.8	6.9
Poison Meadows	(Wy) Greys	8500	1/01		13.8e	--	14.1
Pole Creek Ranger Sta.(Nv)	Jarbridge	8360	1/01		11.9e	16.8	8.7*
Prairie	Boise	4800	1/01		4.4e	--	2.9*
Road Creek	Boise	5380	12/27	27	5.6	--	4.6*
Rock Flat Summit	Payette	5310	1/02	44	10.8	9.6	7.3
Roland Summit	St. Joe	5120	1/01		30.5e	--	17.1*
Saddle Mountain	(Mt) Bitterroot	7940	12/24	52	12.2	9.5	10.7*
Salt River Summit	(Wy) Salt	7700	12/31	35	7.6	9.8	6.3
Savage Pass	Lochsa	6170	1/02	66	16.8	--	10.7*
Sawmill Canyon	Little Lost	7000	12/29	19	3.7	--	3.6*
Sawtell Mountain	Henrys Fork	8720	12/31	62	18.7	20.7	13.7*
Schweitzer Bowl	Pend Oreille	4800	12/27	73	21.2	11.2	13.5*
Schweitzer Ridge	Pend Oreille	6200	12/27	90	29.2	16.8	21.1*
Secesh Summit	Payette	6520	1/01		24.2e	14.8	14.8*

(b) 1961-1980, 20 year period. \*Estimated 1961-1980 20 year average.

(e) Snow course data estimated from automated Snotel readings.

## SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME & DRAINAGE		Elevation				Last Year	Average
Shanghai Summit	Clearwater	4570	1/04	87	22.9	9.1	9.8*
Sheep Mountain	Willow	6570	12/27	28	7.0	10.4	4.6*
Sherwin	St. Maries	3200	1/04	47	11.9	6.4	5.6*
Shoshone Basin	Salmon Falls	5810	12/28	18	2.9	9.3	3.0*
Slug Creek Divide	Blackfoot	7230	1/01		8.2e	10.6	6.8*
Snake River Sta. (Wy)	Snake	6920	1/02	52	12.8	11.0	8.5
Soldier Ranger Sta.	Big Wood	5740	12/29	29	7.4	10.5	4.7*
Somsen Ranch	Willow Creek	6840	1/01		8.5e	10.8	5.8*
South Mountain	Jordan-Owyhee	6500	1/01	37	12.2	18.0	5.1
Squaw Flat	Weiser	6240	1/01		17.0e	11.0	9.1*
Squaw Meadow	Payette	5900	1.01		25.0e	15.6	15.8*
State Line	Teton	6660	12/31	41	9.6	9.3	6.0
Stickney Mill	Big Lost	7430	1/01		5.3e	9.0	3.0*
Strawberry Creek	Mink	5820	12/27		6.1e	--	4.3*
Strawberry Mink Divide	Mink	6720	1/01		10.7e	--	8.3*
Swede Peak	Little Wood	7640	12/28	35	9.0	11.5	7.6*
Targhee Pass	Henrys Fork	6980	12/31		7.4e	6.6	6.1*
Taylor Canyon (Nv)	Owyhee	6200	12/27	13	2.1	--	2.1
Tex Creek	Willow	6650	1/01		5.2e	--	3.4*
Togwotee Pass (Wy)	Snake	9580	1/03	51	12.8	16.5	13.6
Trinity Mountain	Boise	7770	12/29	75	23.0	25.4	18.5*
Tripod Summit	Payette	5260	1/04	49	13.5	--	8.9*
Twelve Mile Creek (Mt)	Bitterroot	5600	12/27	48	11.6	7.1	8.5
Twin Lakes (Mt)	Bitterroot	6510	1/03	83	23.8	11.8	17.2
Twin Spirit Divide	Rathdrum	3480	12/27	53	12.6	--	--
Twitchell Canyon	Blackfoot	6300	12/31	40	10.8	10.2	--
Upper Home Canyon	Montpelier	8560	1/01		10.7e	--	9.1*
Valley View	Henrys Fork	6680	12/31	35	8.1	6.9	6.2
Vienna Mine	Salmon	8960	1/01	71	20.0	22.4	15.0*
Webb Creek	Clearwater	4720	12/27	26	5.7		
West Branch	Weiser	5560	12/28	53	12.8	10.0	--
Wet Creek Summit	Little Lost	7680	12/28	22	4.4	6.0	4.3*
Whiskey Creek (Mt)	Madison	6800	12/27	43	12.0	9.0	7.1
Whiskey Flat	Montpelier	6960	1/01		6.0e	6.7	3.6*
White Elephant	Henrys Fork	7710	12/31	49	13.9	13.3	9.6*
Willow Flat	Cub	6070	12/27	32	8.8	16.4	6.1*

(b) 1961-1980, 20 year period. \*Estimated 1961-1980 20 year average.  
 (e) Snow course data estimated from automated Snotel readings.

SNOTEL PILLOW DATA			This Year		Past Record	
Data Site Name	Drainage	Elevation	Date	Water Content (inches)	Last Year	61-80 <u>1/</u> Average
Atlanta Summit	Boise	7580	1/1	18.6	19.1	12.4
Banner Summit	Payette	7040	1/1	17.5	14.7	--
Base Camp	Upper Snake	7030	1/1	9.7	8.8	--
Bear Basin	Little Salmon	5350	1/1	11.1	9.3	7.4
Bear Canyon	Big Lost	7900	1/1	8.3	8.3	6.3
Bear Creek	Jarbridge	7800	1/1	11.9	19.5	--
Bear Mountain	Clark Fork	5400	1/1	NA	17.0	--
Bear Saddle	Mann Creek	6180	1/1	15.7	14.6	--
Bennett Mountain	Canyon Creek	6560	1/1	10.9	19.1	--
Big Creek Summit	Salmon	6580	1/1	21.7	15.4	11.3
Big Sandy Opening	Green	9080	1/1	6.6	NA	--
Blind Bull Summit	Green	8650	1/1	12.7	15.3	--
Bostetter Ranger Station	Trapper	7500	1/1	10.9	NA	--
Bunchgrass Meadow	Pend Oreille	5000	1/1	19.3	12.8	--
Cool Creek	Clearwater	6250	1/1	35.4	--	--
Cottonwood Lake	Salt	7600	1/1	11.2	14.1	--
Coulter Creek	Upper Snake	7020	1/1	13.8	NA	--
Cozy Cove	Deadwood	5380	1/1	10.8	12.9	6.9
Crab Creek	Camas-Beaver	6860	1/1	6.8	NA	--
Crater Meadows	Clearwater	5960	1/1	30.8	--	--
Deadwood Summit	Deadwood	6860	1/1	25.9	22.5	20.9
Dollarhide Summit	Big Wood	8420	1/1	14.4	18.4	11.7
Elk Butte	Clearwater	5550	1/1	30.4	18.8	--
Elkhart Park Guard Station	Green	9400	1/1	5.6	8.7	--
Emigrant Summit	Bear	7390	1/1	11.0E	24.5	10.6
Franklin Basin	Cub	8170	1/1	18.1	23.1	--
Galena	Big Wood	7470	1/1	11.4	11.2	7.6
Galena Summit	Big Wood	8780	1/1	NA	NA	8.3
Garfield Ranger Station	Little Wood	6560	1/1	5.3	NA	3.7
Giveout	Montpelier	6930	1/1	7.8	8.8	4.6
Goat Creek	Salmon Falls	8880	1/1	11.8	18.2	--
Graham Guard Station	Boise	5690	1/1	11.1	11.2	5.4
Grassy Lake	Upper Snake	7265	1/1	22.3	16.9	--
Gros Ventre Summit	Upper Snake	8750	1/1	NA	NA	--
Hemlock Butte	Clearwater	5810	1/1	35.1	19.7	21.2
Hilts Creek	Little Lost	8000	1/1	8.2	NA	--
Howell Canyon	Marsh Creek	7980	1/1	11.3	21.9	8.5
Humboldt Gulch	Coeur d'Alene	4250	1/1	13.3	4.4	5.5
Hyndman	Big Wood	7440	1/1	6.9	6.4	4.9
Indian Creek	Green	7960	1/1	13.2	18.6	--
Island Park	Henrys Fork	6290	1/1	8.8	7.5	6.8
Jackson Peak	Boise	7070	1/1	17.9	16.2	12.5
Kelly Ranger Station	Green	8180	1/1	8.5	13.2	--
Lewis Lake Divide	Upper Snake	7850	1/1	20.7	17.0	--
Lolo Pass	Lochsa	5240	1/1	NA	10.2	12.9
Lookout	Coeur d'Alene	5140	1/1	25.4	NA	14.5
Loomis Park	Green	8240	1/1	8.2	9.2	--
Lost Lake	Clearwater	6110	1/1	49.0	24.0	--
Lost-Wood Divide	Big Lost	7900	1/1	7.7	11.6	9.7
Magic Mountain	Rock Creek	6880	1/1	6.9	20.2	7.4
Meadow Lake	Lemhi	9150	1/1	NA	NA	--
Mill Creek Summit	Salmon	8800	1/1	12.1	10.1	9.8
Moonshine	Little Lost	7440	1/1	5.0	5.4	4.2
Moore's Creek Summit	Boie	6100	1/1	21.7	21.4	11.7
Moose Creek	N. Fork Salmon	6200	1/1	9.0	8.3	7.3
Morgan Creek	Salmon	7600	1/1	8.2	7.1	5.5
Mosquito Ridge	Coeur d'Alene	5200	1/1	NA	13.1	--
Mountain Meadows	Selway	6360	1/1	12.6	8.6	14.9
Mud Flat	Owyhee	5730	1/1	4.8	NA	--
Oxford Spring	Malad	6740	1/1	4.6	NA	--
Phillips Bench	Salmon Falls	8200	1/1	15.4	14.2	--
Pole Creek Ranger Station	Salmon Falls	8330	1/1	10.6	16.4	--
Prairie	Boise	4800	1/1	NA	NA	--
Salt River Summit	Salt	7700	1/1	5.9	9.7	--
Savage Pass	Lochsa	6170	1/1	17.4	8.9	10.5
Schweitzer Basin	Pend Oreille	6090	1/1	36.4	19.2	24.3
Secesh Summit	Payette	6520	1/1	24.5	15.2	14.9
Shanghai Summit	Clearwater	4570	1/1	23.7	NA	12.4
Sheep Mountain	Willow	6570	1/1	7.5	9.9	1.6
Sherwin	St. Maries	3200	1/1	9.7	5.7	5.9
Slug Creek Divide	Blackfoot	7225	1/1	8.6	12.3	7.6
Snider Basin	Green	8060	1/1	6.1	8.2	--
Somsen Ranch	Willow Creek	6800	1/1	7.4	10.1	4.6

1/ Estimated 1961-1980 20 year average.

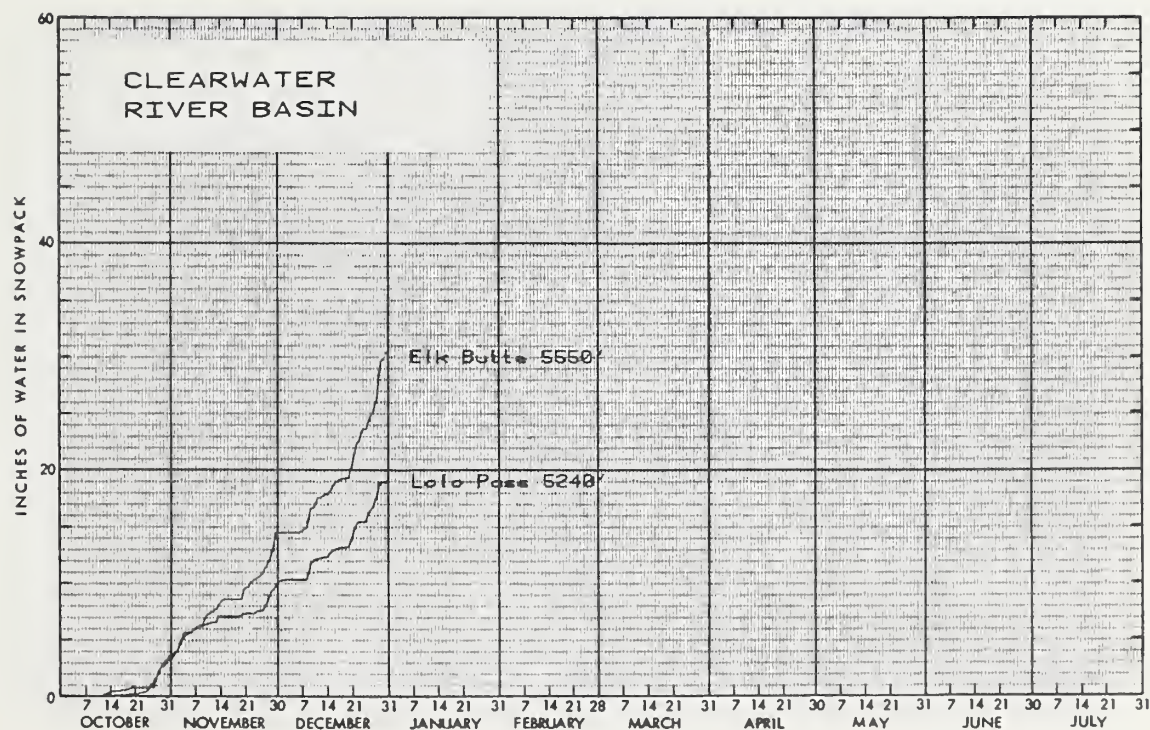
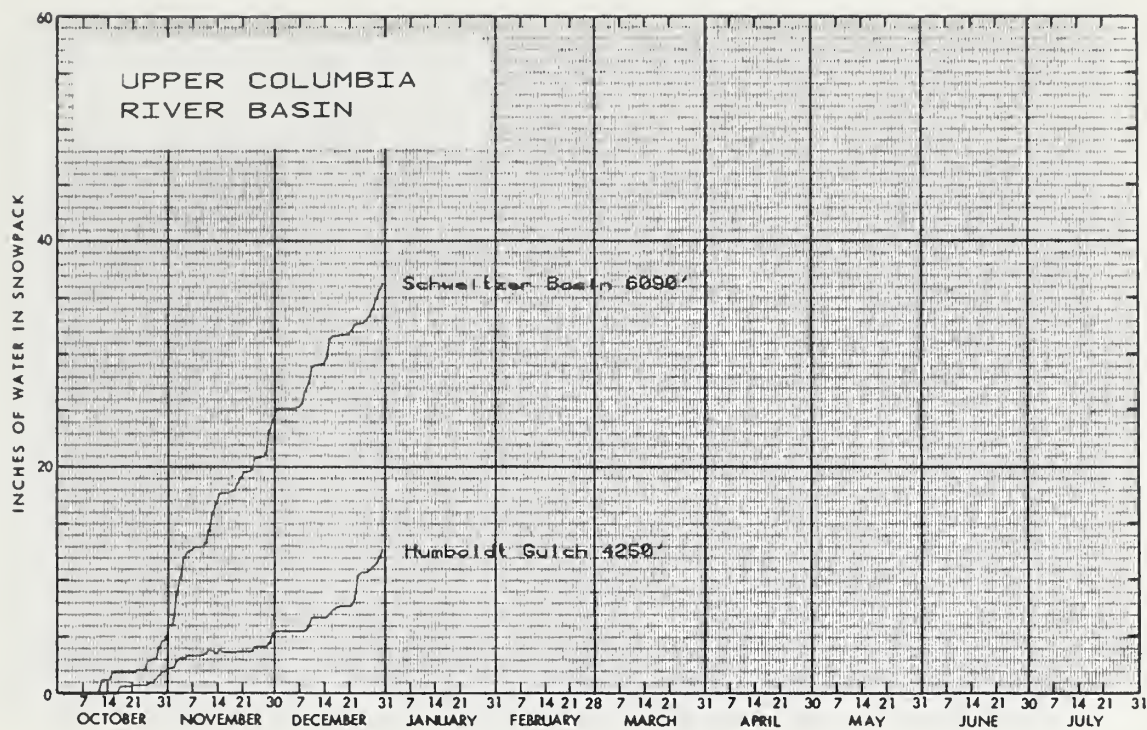
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SNOTEL PILLOW DATA			This Year		Past Record	
Data Site Name	Drainage	Elevation	Date	Water Content (inches)	Last Year	61-80 <u>1</u> / Average
South Mountain	Jordan-Owyhee	6500	1/1	12.5	21.5	2.9
Spring Creek Divide	Green	9000	1/1	NA	16.1	--
Squaw Flat	Weiser	6240	1/1	14.3	8.9	6.5
Stickney Mill	Big Lost	7430	1/1	4.7	5.1	2.4
Sunset	Coeur d'Alene	5540	1/1	26.2	12.3	--
Swede Peak	Little Wood	7640	1/1	8.5	9.7	5.9
Togwotee Pass	Upper Snake	9580	1/1	12.0	13.6	--
Touchet #2	Touchet	5530	1/1	34.0	12.3	--
Trinity Mountain	Boise	7770	1/1	22.7	24.5	17.9
Two Ocean Plateau	Upper Snake	9160	1/1	15.7	14.8	--
Vienna Mine	Salmon	8960	1/1	20.6	NA	15.0
West Branch	Weiser	5560	1/1	13.6	11.8	10.9
White Elephant	Henry's Fork	7710	1/1	14.3	13.7	10.2
Wildhorse Divide	Portneuf	6490	1/1	NA	NA	--
Willow Creek	Greys	8450	1/1	16.6	21.8	--

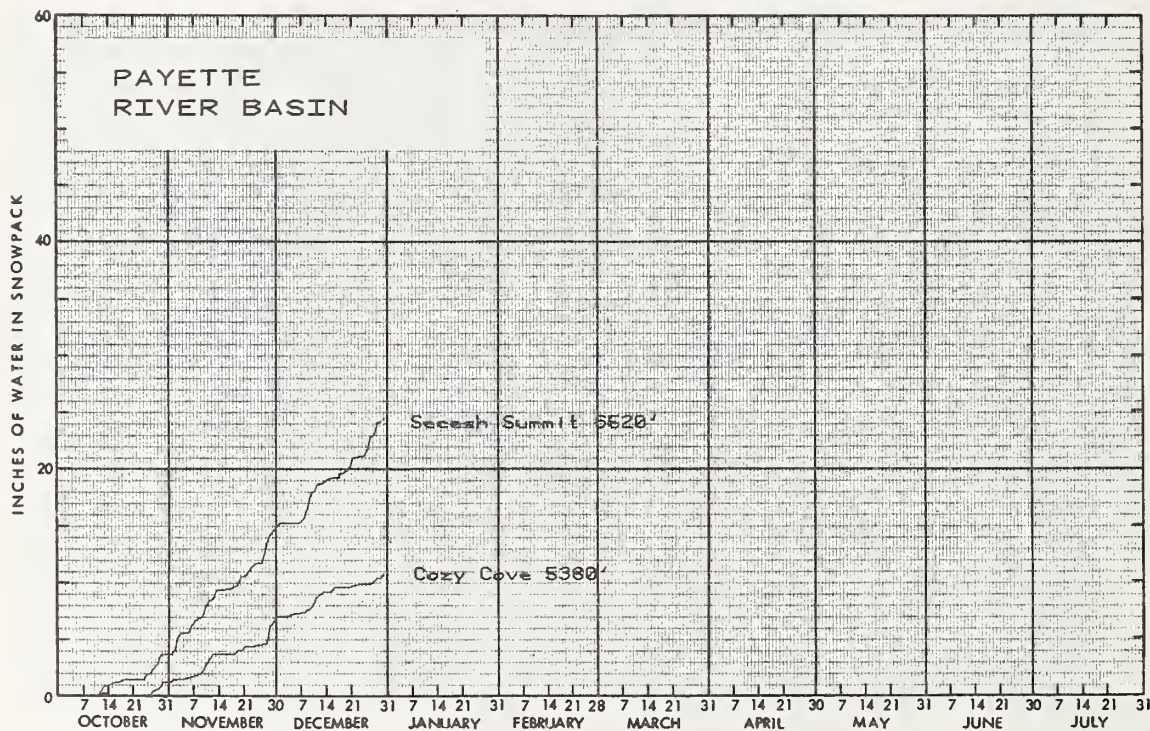
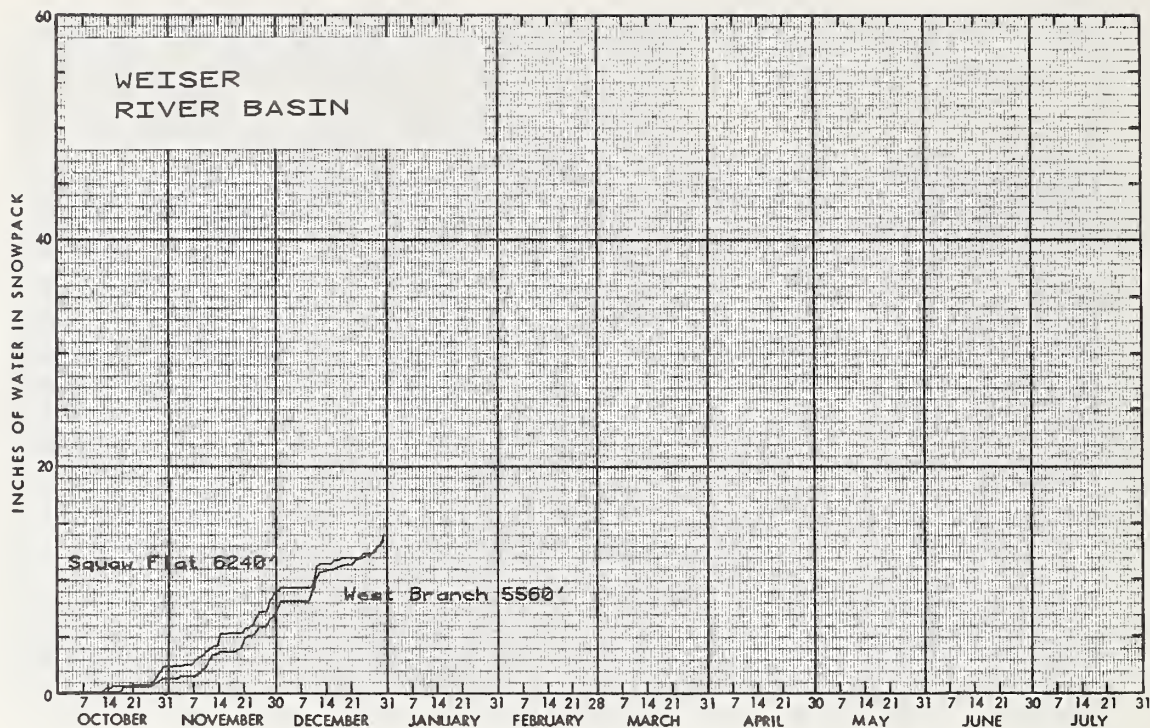
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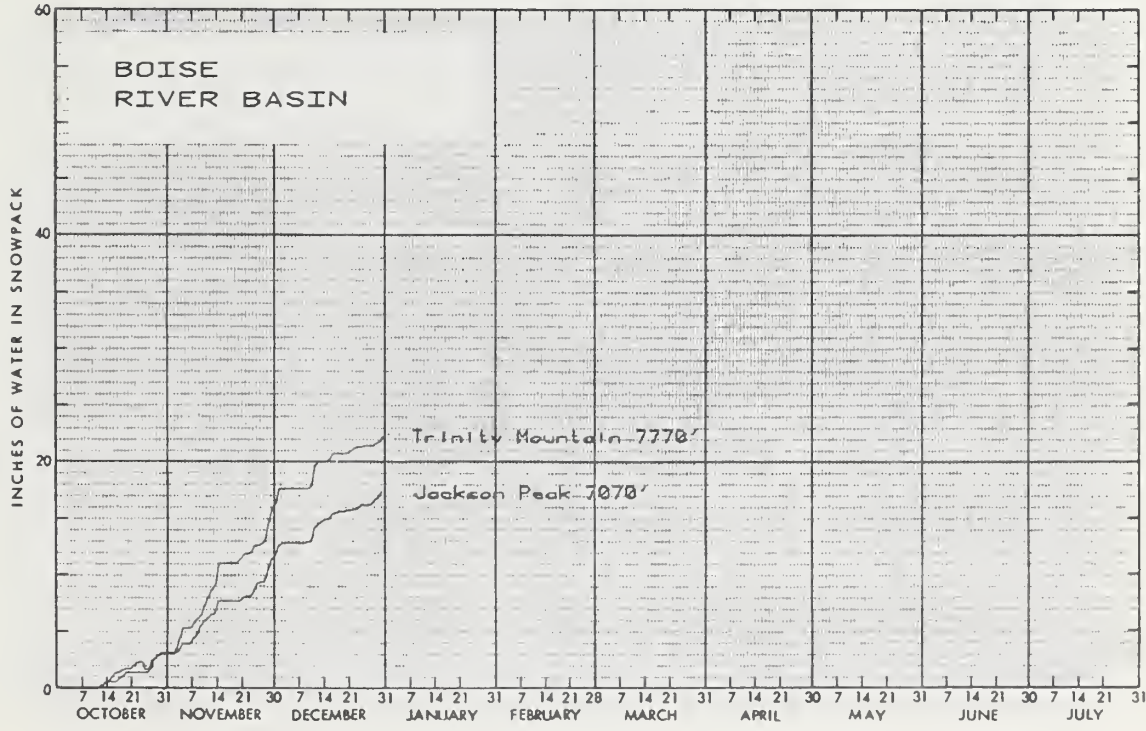
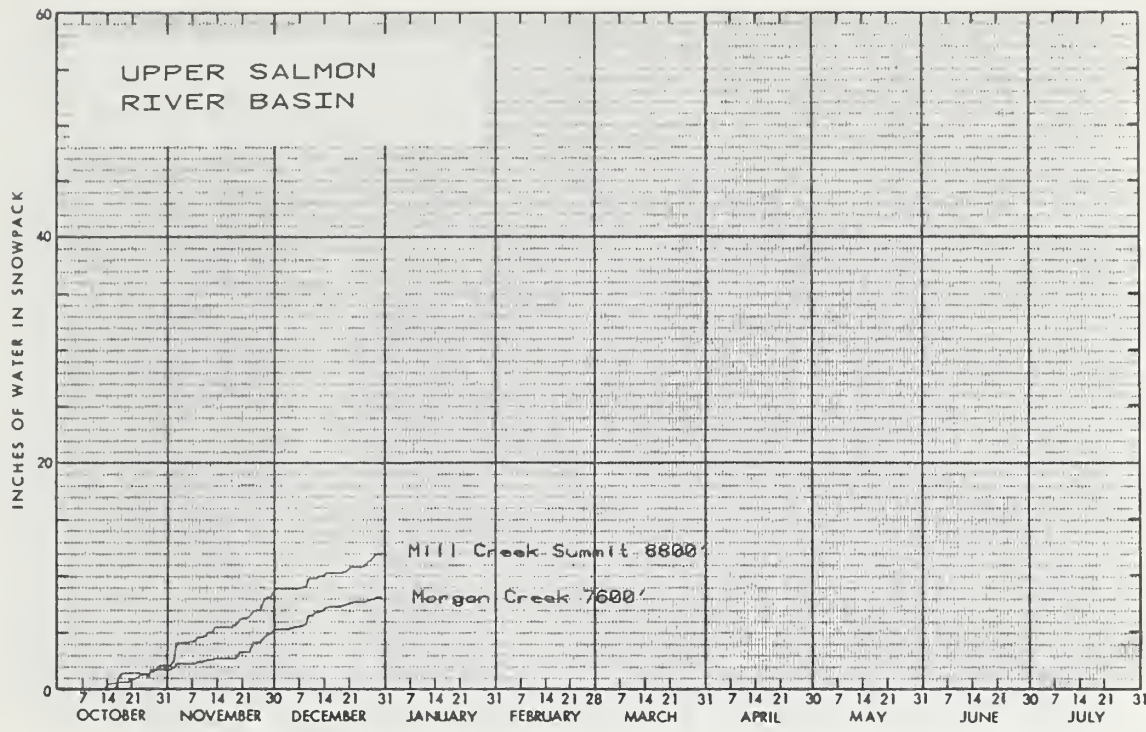




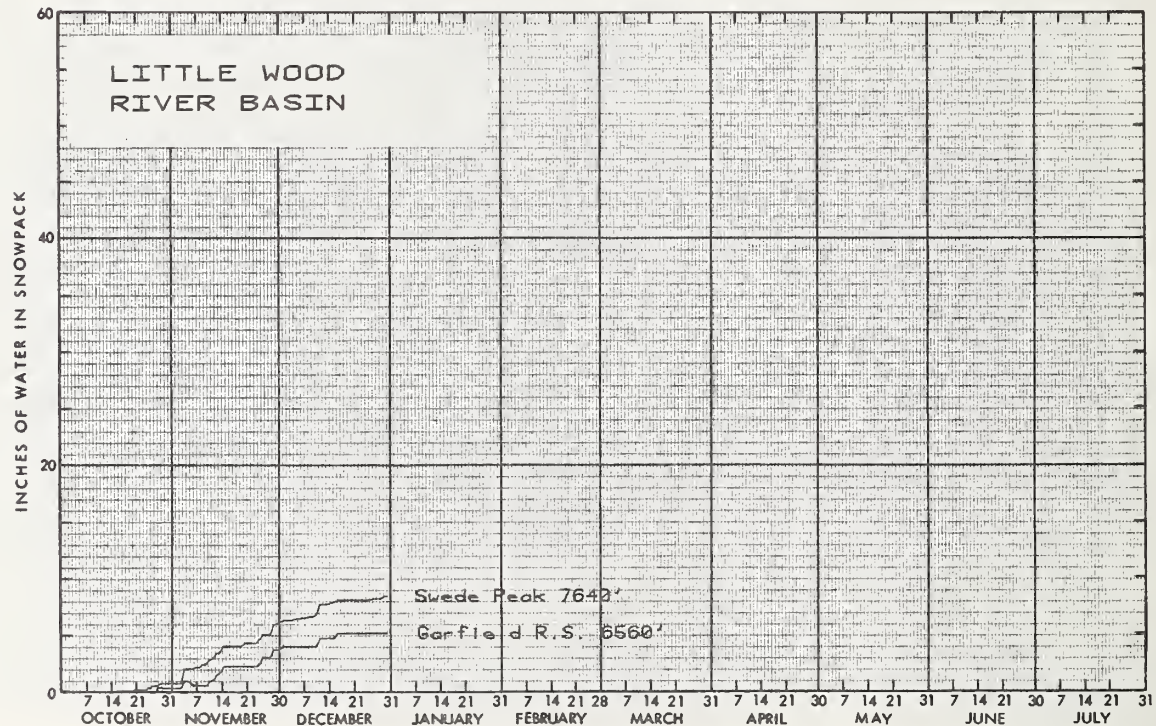
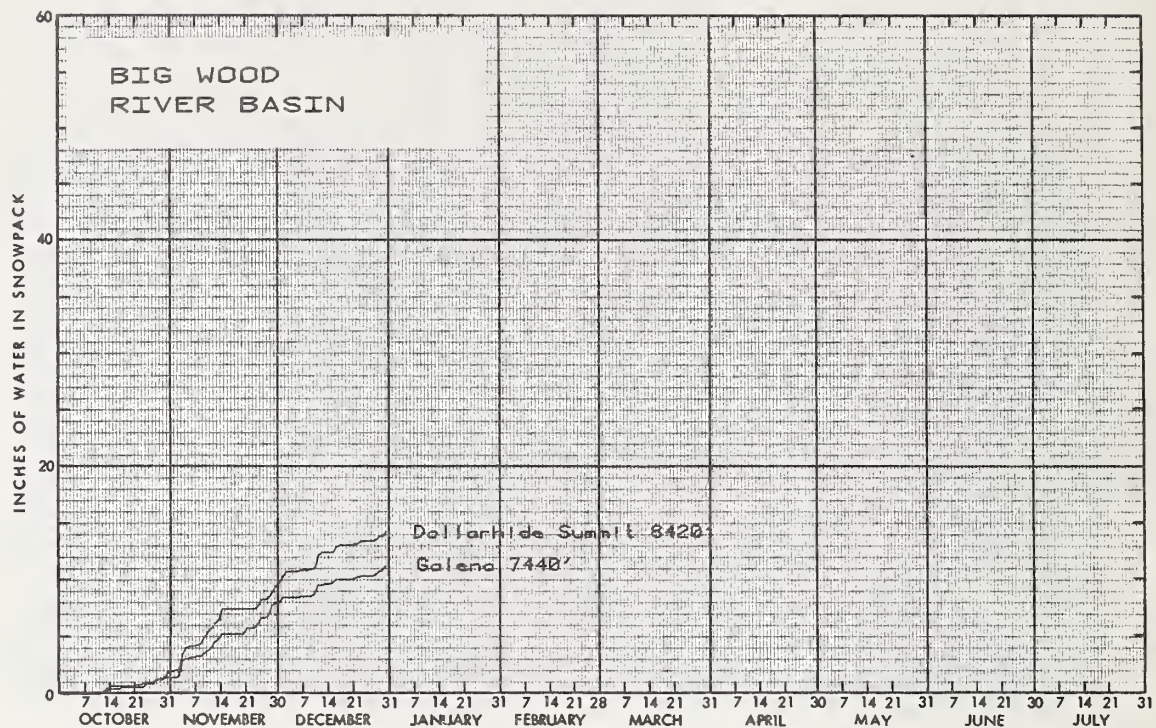




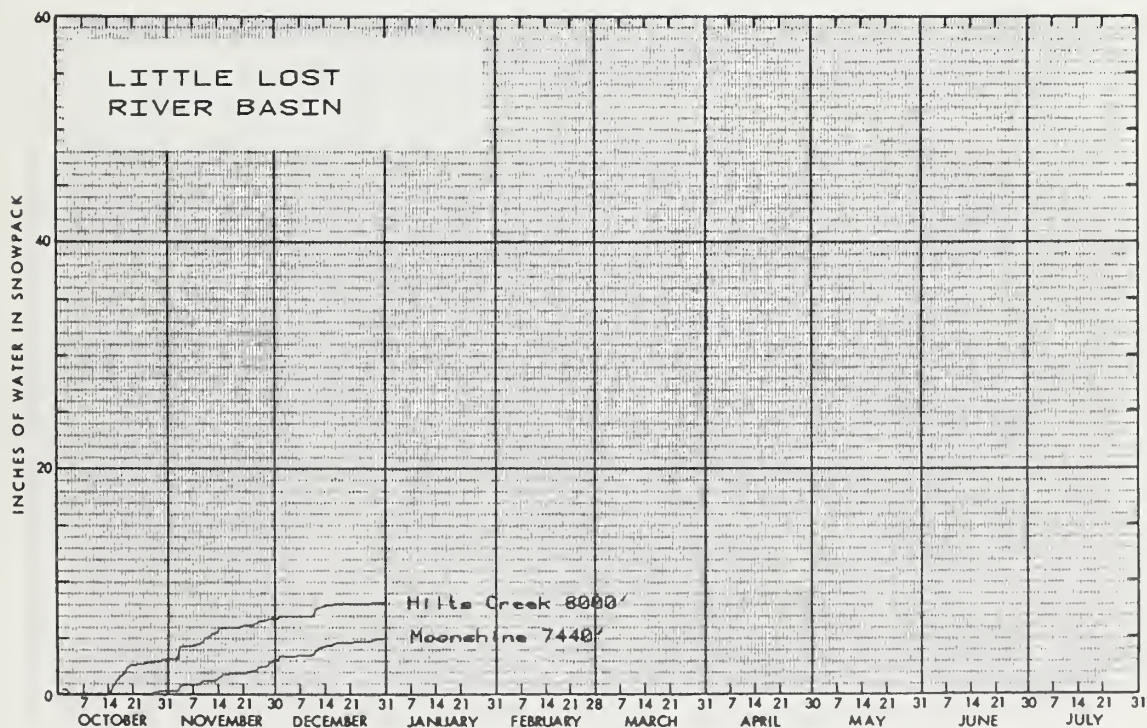
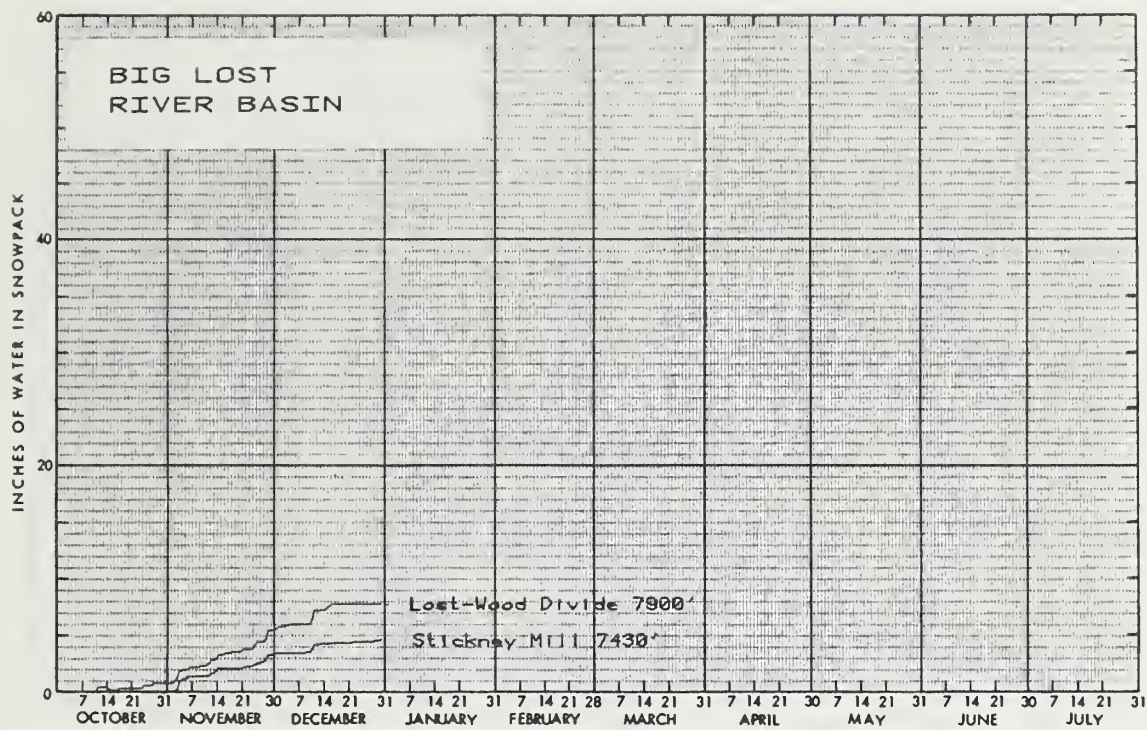




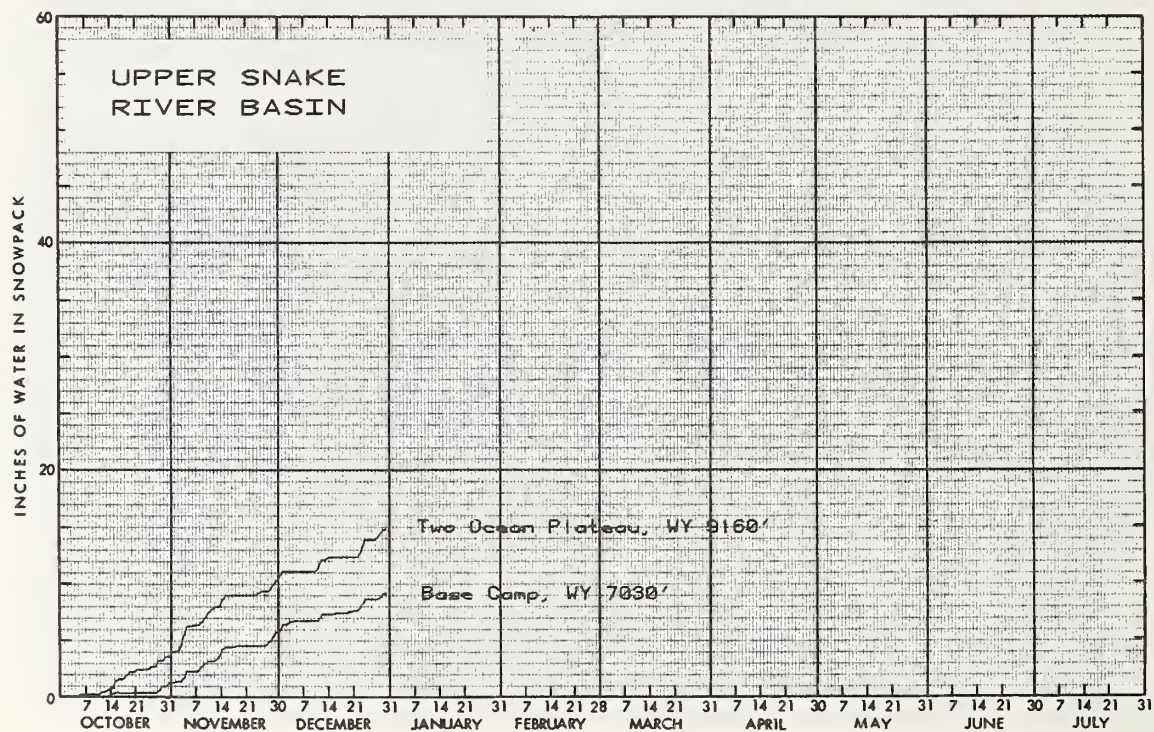
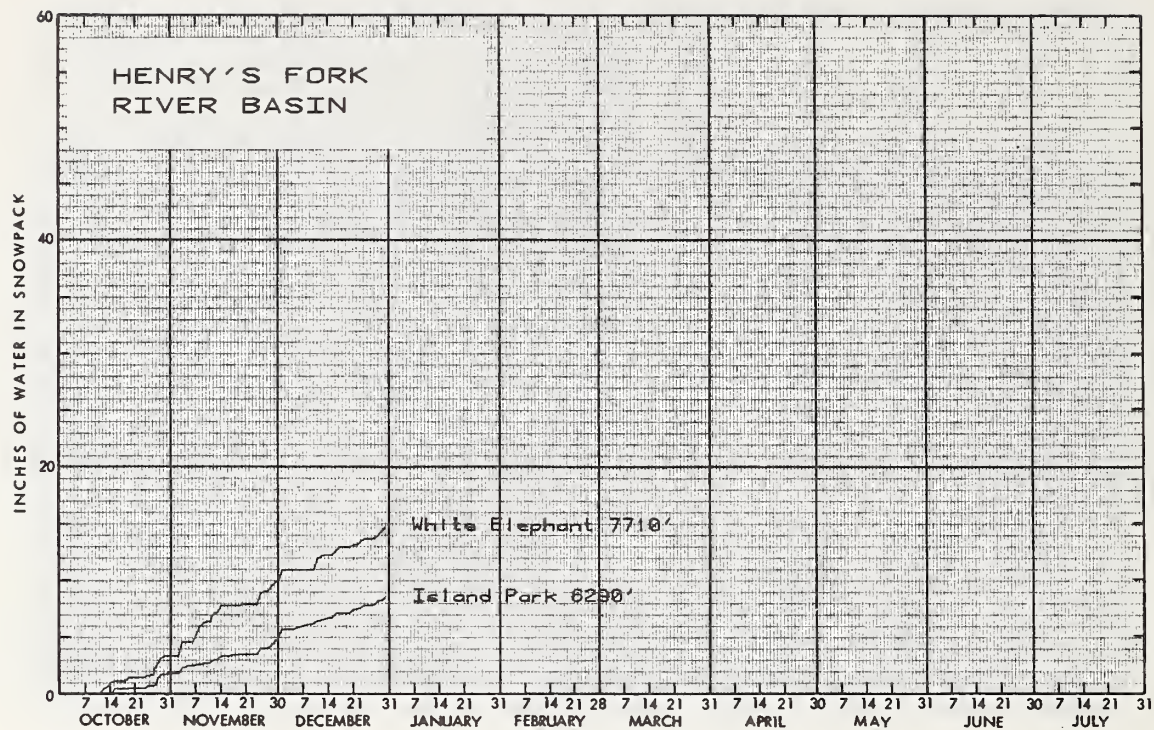




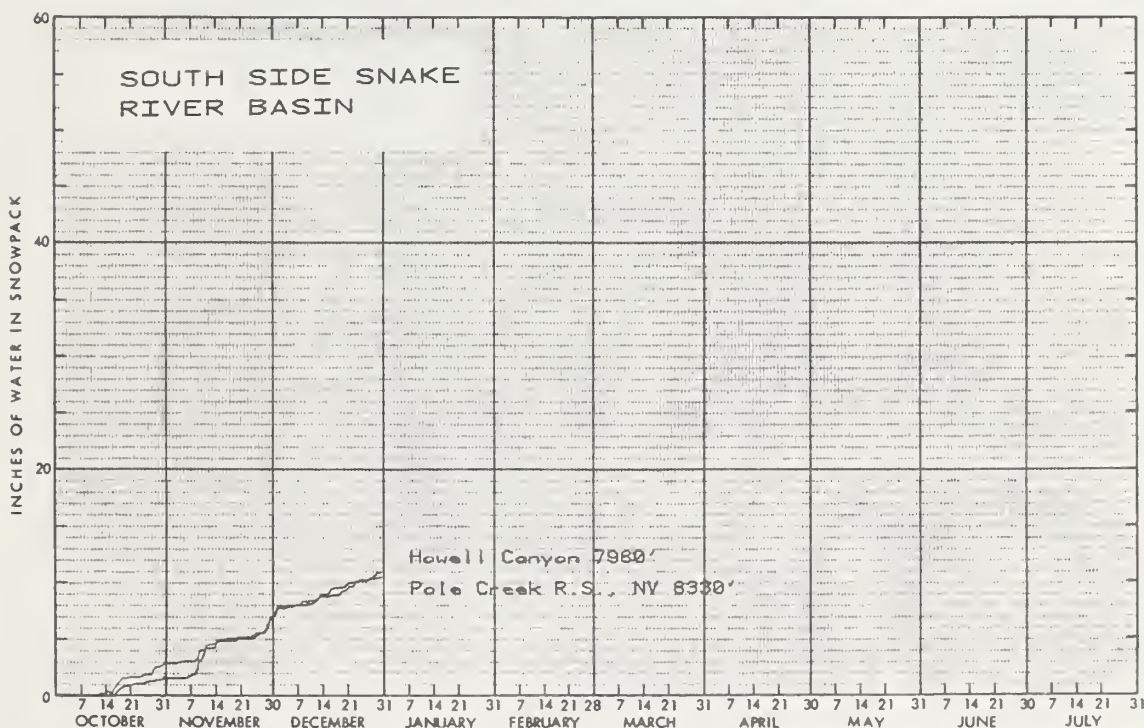
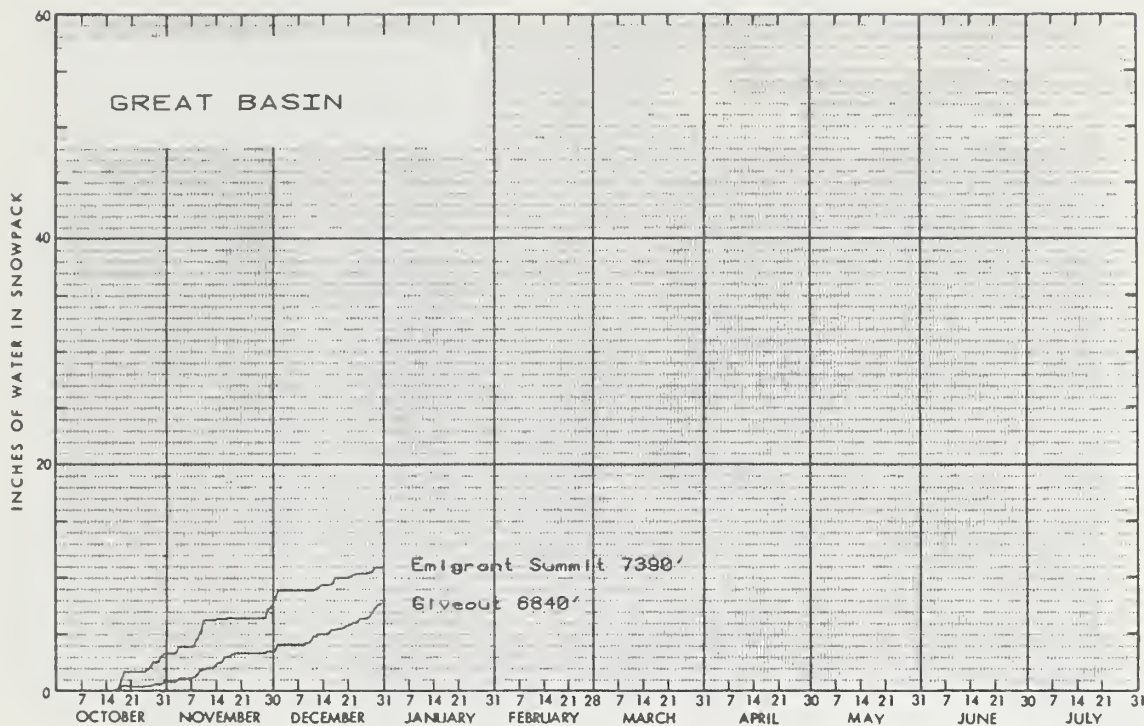


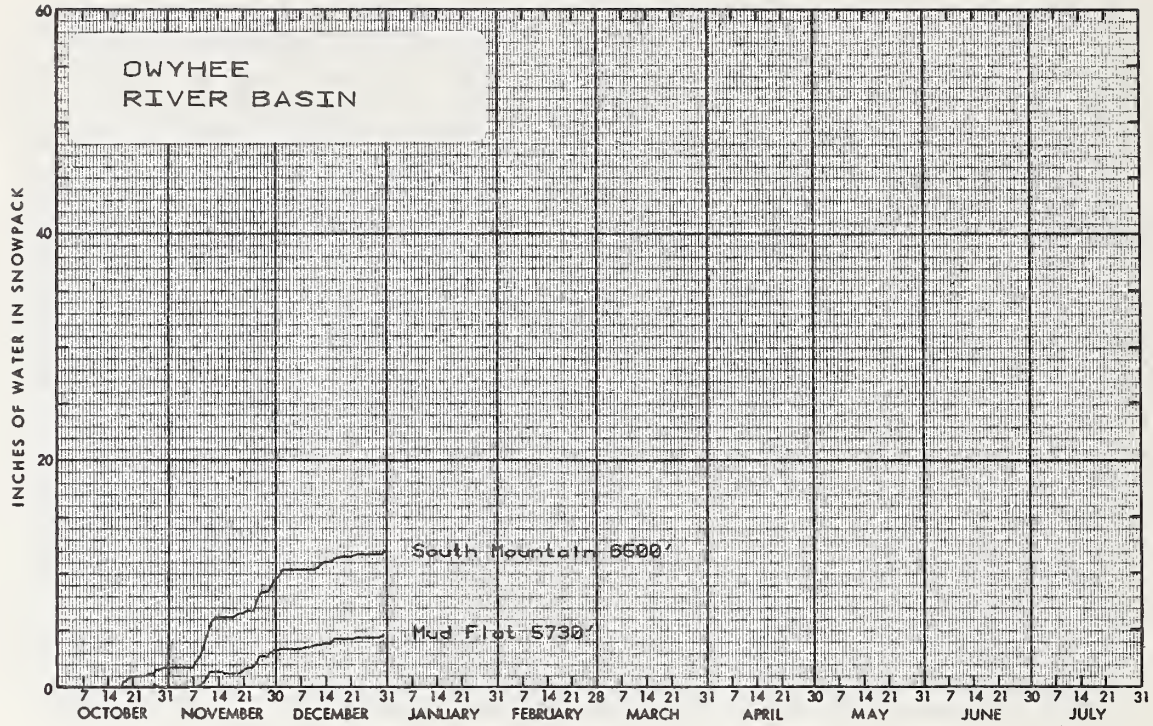






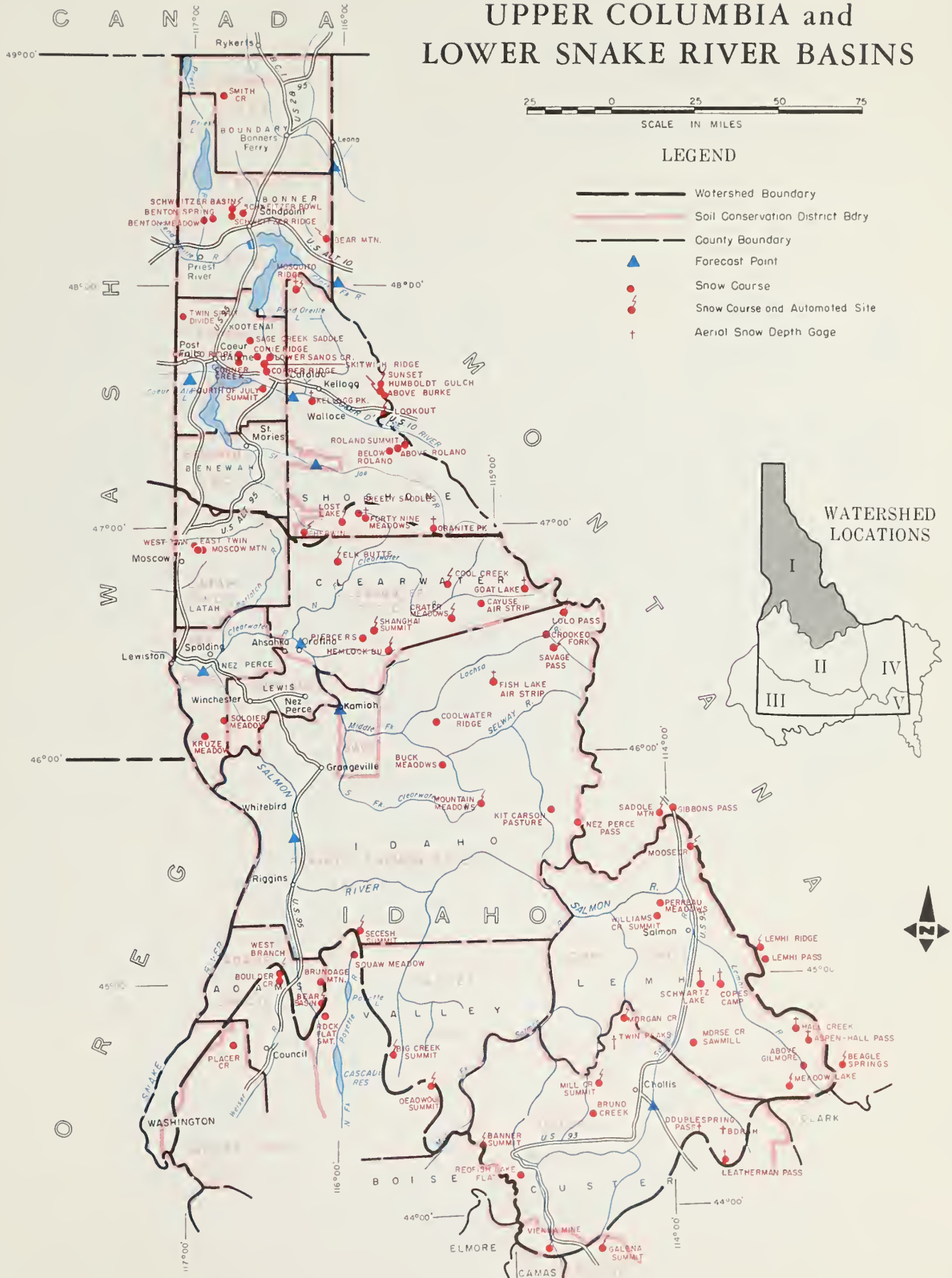








# UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



# INDEX to SNOW COURSES

## UPPER COLUMBIA BASIN

## LOWER SNAKE BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
KOOTENAI RIVER						
16A1	I	Smith Creek	29	64N	3W	4800
PEND OREILLE-PRIEST RIVER						
16A8S	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4920
16A10S	I	Schweitzer Basin	18	58N	2W	6090
16A6	I	Schweitzer Bowl	20	58N	2W	4800
16A5	I	Schweitzer Ridge	19	58N	2W	6200
HAYDEN CREEK						
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Sadler	10	52N	2W	4080
SPOKANE RIVER						
15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	35	47N	6E	3920
16B2	I	Copper Ridge	6	50N	1W	4820
16B3	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	4	42N	8E	6000
15B21S	I	Humboldt Gulch	2	48N	5E	4250
16B5A	I	Kellog Peak	19	48N	3E	5560
15B2S	I	Lookout	4	47N	6E	5140
16B1	I	Lower Sands Creek	32	51N	1W	3120
16A4AS	I	Mosquito Ridge	5	54N	2E	5200
15B5A	I	Roland Summit	26	47N	6E	5120
16C1S	I	Sherwin	28	42N	1E	3200
16B11	I	Skitwish Ridge	6	50N	1W	4850
15B9AS	I	Sunset	33	49N	5E	5540
16B12	I	Twin Spirit Divide	29	53N	5W	3480

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
PALOUSE RIVER						
16C3	I	East Twin	13	40N	5W	4130
16C2	I	Moscow Mountain	18	40N	4W	4410
16C4	I	West Twin	14	40N	5W	4220
CLEARWATER RIVER						
15B20	I	Breezy Saddle	1	43N	4E	5010
15D5	I	Buck Meadows	27	31N	8E	5650
15C3	I	Cayuse Airstrip	4	38N	11E	3500
15C16	I	Cool Creek	35	40N	9E	6280
15C7	I	Coolwater Mountain	31	33N	8E	6040
15C9A	I	Crater Meadows	11	37N	9E	5960
14C11	I	Crooked Fork	27	37N	14E	3610
16C15S	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
15B3A	I	Forty-nine Meadows	6	43N	5E	4830
14C9A	I	Goat Lake	3	38N	13E	6500
15C6SR	I	Hemlock Butte	7	36N	7E	5810
15C10S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	15E	4950
16C17	I	Kruze Meadows	11	32N	4W	4780
14C5S	I	Lolo Pass	16	38N	15E	5240
15B14S	I	Lost Lake	9	43N	4E	6110
15D6S	I	Mountain Meadows	9	27N	10E	6360
14D1	M	Nez Perce Pass	25	1S	24W	6570
15C5	I	Pierce Ranger Station	2	36N	5E	3080
14C4S	I	Savage Pass	18	36N	15E	6170
15C4S	I	Shanghai Summit	7	37N	6E	4600
16C18	I	Soldier Meadows	33	33N	3W	4650
SALMON RIVER						
13E19	I	Above Gilmore	133	13N	26E	8240
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200
16E11S	I	Bear Basin	30	19N	3E	5350
15E2S	I	Big Creek Summit	24	15N	5E	6580
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
14E08	I	Bruno Creek	25	12N	16E	7920
13E17	I	Copes Camp	36	18N	22E	7520
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9860
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23S	M	Lemhi Ridge	4	10S	15W	8100
13E18S	I	Meadow Lake	26	13N	26E	9150
14E1S	I	Mill Creek Summit	8	13N	17E	8800
13D16S	I	Moose Creek	14	27N	21E	6200
14E4S	I	Morgan Creek	31	18N	19E	7600
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14D5	I	Perreau Meadows	23	21N	20E	8500
14E7	I	Redfish Lake Flat	35	10N	13E	6560
13E16	I	Schwartz Lake	34	18N	22E	8540
14E3A	I	Twin Peaks	28	15N	17E	9190
14F4S	I	Vienna Mine	1	5N	13E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7990

### LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage



# MIDDLE SNAKE RIVER BASIN NORTHSIDE



## LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- † Aerial Snow Depth Gage

# INDEX to SNOW COURSES

## MIDDLE SNAKE RIVER BASIN NORTHSIDE

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev	No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
LITTLE LOST RIVER							BOISE RIVER (cont.)						
13E27S	I	Hilts Creek	15	8N	25E	8000	14F10	I	Couch Summit	9	2N	14E	6840
13E6S	I	Moonshine	31	13N	26E	7440	16F1	I	Deadman Gulch	29	7N	4E	5600
13E4	I	Sawmill Canyon	17	12N	26E	7000	15F14S	I	Graham Guard Station	9	7N	10E	5690
13E7	I	Wet Creek Summit	15	8N	25E	7680	15F16	I	Idaho City Townsite	26	6N	5E	4000
BIG LOST RIVER							15E9S	I	Jackson Peak	7	8N	9E	7070
13F3S	I	Bear Canyon	22	5N	21E	7900	15F1S	I	Moore's Creek Summit	19	7N	7E	6100
13F2	I	Copper Basin	26	6N	21E	7640	15F6S	I	Prairie	13	2N	7E	4800
13F20	I	Dry Fork	23	3N	23E	7220	15F3	I	Road Creek	5	5N	8E	5380
13F8	I	Fishpole Lake	28	4N	22E	9300	15F5S	I	Trinity Mountain	6	3N	9E	7770
13F11	I	Iron Bog	23	4N	22E	7650	CANYON CREEK						
13F12	I	Leadbelt	34	4N	23E	6700	15F7S	I	Bennett Mountain	7	2S	9E	6560
14F3S	I	Lost Wood Divide	25	6N	18E	7900	15F12	I	Little Camas Flat	21	1S	9E	4940
14F2S	I	Stickney Mill	9	6N	19E	7430	PAYETTE RIVER						
BIG WOOD RIVER							15E11S	I	Banner Summit	11	11N	10E	7040
15F9	I	Camas Creeks Divide	11	2S	9E	5710	16F2	I	Bogus Basin	16	5N	3E	6340
15F1S	I	Chimney Creek	9	1N	12E	6400	15E8S	I	Cozy Cove	17	11N	7E	5380
14F8S	I	Dollarhide Summit	9	3N	15E	8420	15E3	I	Crawford Ranger Station	21	14N	4E	4860
14F1	I	Galena	4	6N	15E	7440	15E10	I	Deadwood Airstrip	8	11N	7E	5360
14F17S	I	Galena Snotel	4	6N	15E	7470	15E4S	I	Deadwood Summit	13	14N	7E	6860
14F12S	I	Galena Summit	7	6N	15E	8780	15E1	I	Lake Fork	3	18N	4E	5290
14F5	I	Graham Ranch	10	5N	17E	6270	16E1	I	Rock Flat Summit	1	18N	2E	5310
14F16S	I	Hyndman Creek	2	4N	19E	7440	15D1S	I	Secesh Summit	4	21N	4E	6520
14F7	I	Mascot Mine	8	4N	20E	7780	15D2	I	Squaw Meadow	17	21N	4E	5900
14F9	I	Mount Baldy	23	4N	17E	8920	16E3	I	Tripod Summit	17	11N	3E	5260
14F11	I	Soldier Ranger Station	29	2N	14E	5740	WEISER RIVER						
LITTLE WOOD RIVER							16D1	I	Boulder Creek	16	20N	1W	5440
13F4S	I	Garfield Ranger Station	11	3N	21E	6560	16E2	I	Placer Creek	15	17N	3W	5860
13F5	I	Muldoon	26	3N	21E	6320	16E5S	I	Squaw Flat	32	17N	2E	6240
13F9S	I	Swede Peak	4	3N	21E	7640	16D8S	I	West Branch	15	20N	1W	5560
FISH CREEK							MANN CREEK						
13F10	I	Iron Mine Creek	33	3N	23E	6300	6E10S	I	Bear Saddle	29	15N	5W	6180
13F6	I	Telfer Ranch	7	2N	23E	5840	16E9	I	Mann Creek	20	15N	5W	6080
BOISE RIVER							17E1	I	Robinson Creek Ridge	2	14N	6W	6220
15F17	I	Atlanta Townsite	3	5N	11E	5370	16E8	I	Sturgill Ridge	28	15N	5W	6680
15F4S	I	Atlanta Summit	23	5N	10E	7580	17E2	I	Thorson Cabin	12	14N	6W	5320
15F2	I	Bad Bear	35	7N	6E	4940							
16F4	I	Bogus Basin Road	32	5N	3E	5540							

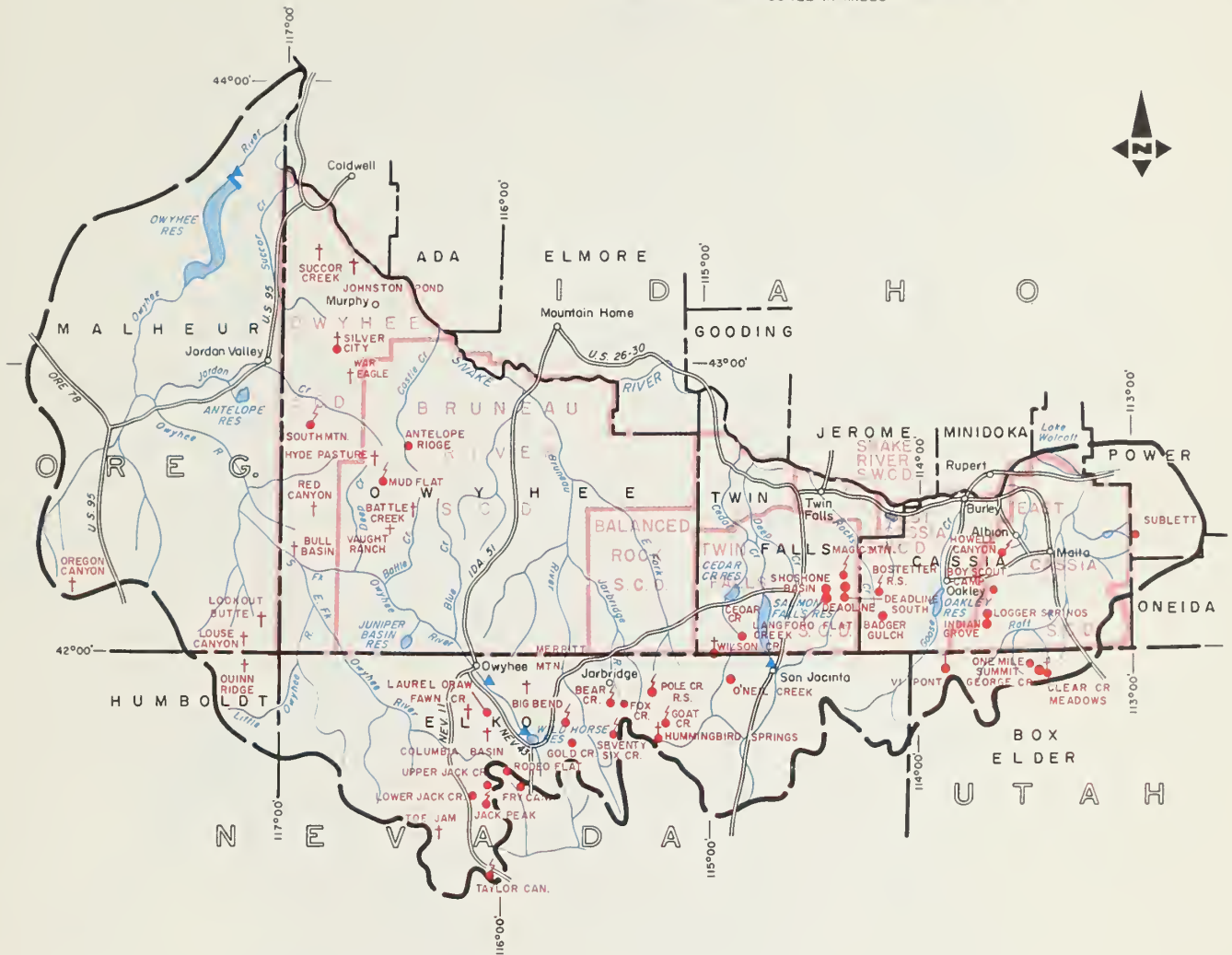
### LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

# MIDDLE SNAKE RIVER BASIN SOUTHSIDE

25 0 25 50 75  
SCALE IN MILES



## LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- † Aerial Snow Depth Gage

## WATERSHED LOCATIONS



# INDEX to SNOW COURSES

## MIDDLE SNAKE RIVER BASIN SOUTHSIDE

No.	State	Name	Sec.	Twp.	Rge.	Elevation
			Lat.	And	Long.	
RAFT RIVER						
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13H5	U	George Creek	26	14N	14W	8840
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	I	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12G8	I	Sublett	17	12S	30E	5950

### GOOSE - TRAPPER CREEK

14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670

### SALMON FALLS CREEK

14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
14G10	I	Deadline South	25	14S	18E	7450
15H13S	N	Goat Creek	31	46N	60E	8880
14G08	I	Langford Flat Creek	8	15S	18E	5980
14G2S	I	Magic Mountain	25	14S	18E	6880
15H19	N	O'Neil Creek	21	46N	61E	6540
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500

### BRUNEAU RIVER

15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H1S	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	59E	8330
15H3S	N	Seventy-six Creek	6	44N	58E	7100

### OWYHEE RIVER

16G6	I	Antelope Ridge	3	9S	1W	6180
16G9A	I	Battle Creek	10	11S	1E	5720
15H4S	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
16H6A	N	Columbia Basin	31	44N	53E	6650
16H8A	N	Fawn Creek	2	45N	52E	7000
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	32	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4S	N	Jacks Peak	21	42N	53E	8420
16F5A	I	Johnston Pond	5	4S	4W	6700
16H5S	N	Laurel Draw	20	45N	53E	6700
17G6A	O	Lookout Butte	2	40S	47E	5650
17G4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
15H20A	N	Merritt Mountain	10	46N	54E	7000
16G7S	I	Mud Flat	34	9S	2W	5730
17G5A	O	Oregon Canyon	8	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16G1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9S	N	Taylor Canyon	35	39N	53E	6200
16H7A	N	Toe Jam	29	40N	50E	7700
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	23	11S	1W	5830
16G13A	I	War Eagle	16	5S	3W	7720

### LEGEND

Numbering System (example)

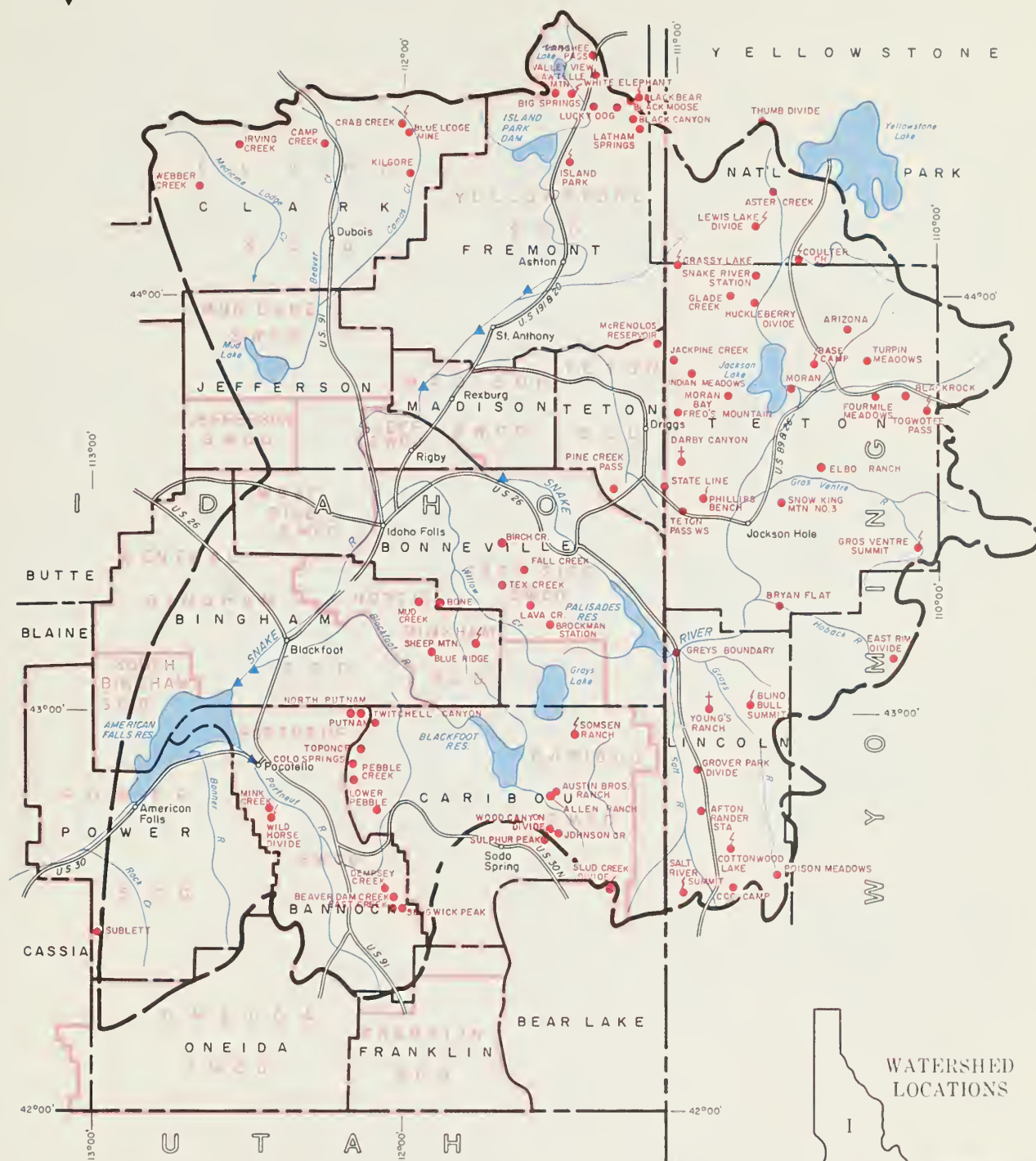
10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage



# UPPER SNAKE RIVER BASIN



25 0 25 50  
SCALE IN MILES



## LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- † Aerial Snow Depth Gage

## WATERSHED LOCATIONS



# INDEX to SNOW COURSES

## UPPER SNAKE RIVER BASIN

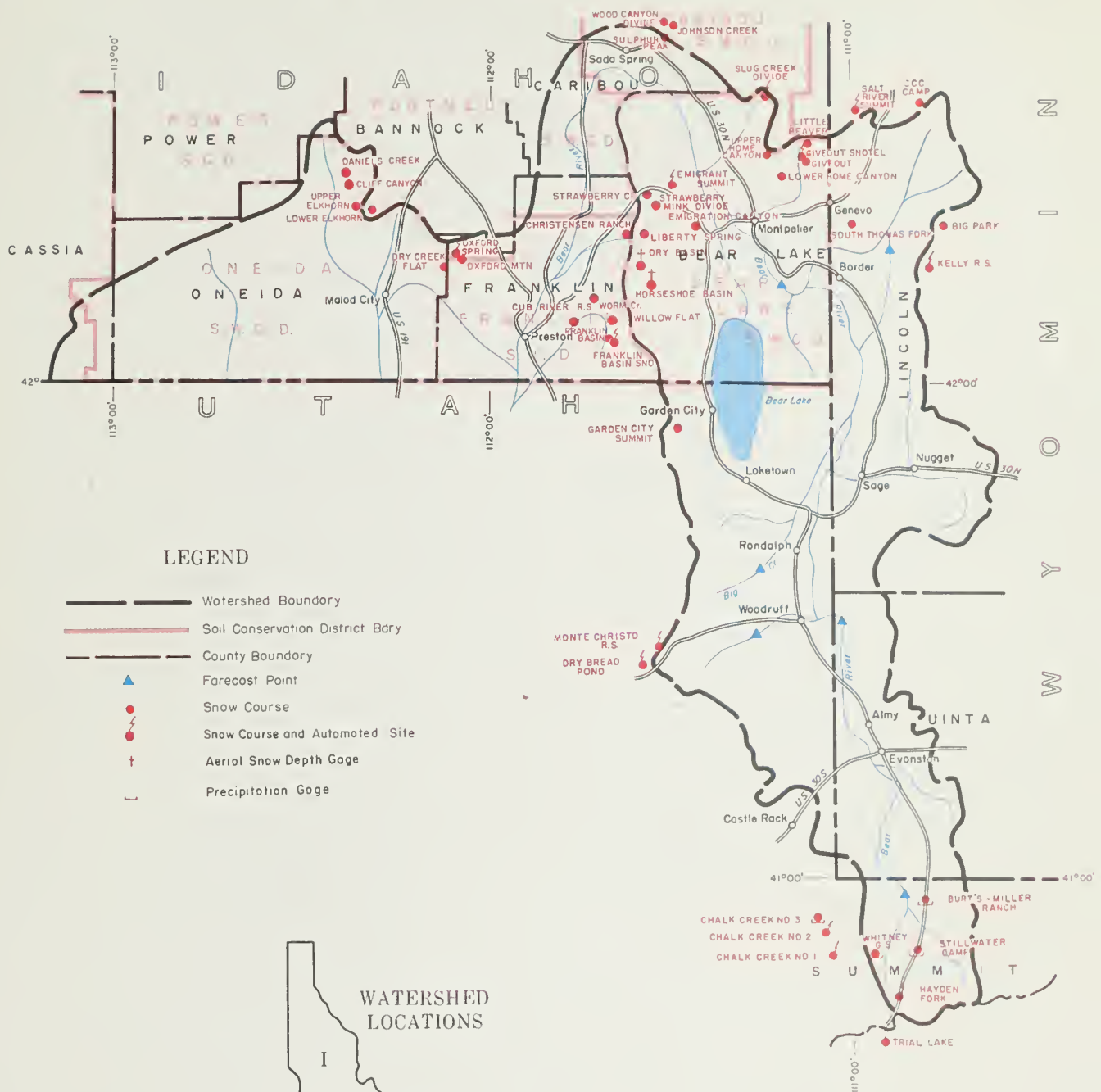
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SNAKE RIVER-WYOMING							CAMAS-BEAVER CREEK						
10G4	Wy	Afton Ranger Station	30	32N	118W	6240	11E11	I	Blue Ledge Mine	21	13N	38E	6900
10F1	Wy	Arizona	3	46N	115W	6820	12E3	I	Camp Creek	21	13N	36E	6580
10E8	Wy	Aster Creek	44°17'		110°38'	7750	11E37S	I	Crab Creek	21	13N	38E	6860
10F2S	Wy	Base Camp	20	46N	113W	7030	11E12	I	Kilgore	6	12N	39E	6320
10F7S	Wy	Blackrock	4	44N	111W	8900	MEDICINE LODGE CREEK						
10G2S	Wy	Blind Bull	6	34N	115W	8650	12E4	I	Irving Creek	8	13N	33E	7280
10F14	Wy	Bryan Flat	9	38N	115W	6420	12E5	I	Webber Creek	23	12N	32E	6700
10G7	Wy	CCC Camp	9	29N	118W	7000	WILLOW CREEK						
10G5S	Wy	Cottonwood Lake	25	31N	118W	7600	11F3	I	Birch Creek	36	2N	41E	6800
10E10S	Wy	Coulter Creek	44°10'		110°33'	7020	11F8	I	Bone	29	1S	40E	6200
10F17	Wy	East Rim Divide	32	37N	111W	7930	11F16	I	Brockman Station	19	2S	43E	6430
10F28	Wy	Elbo Ranch	25	43N	115W	7100	11F19	I	Fall Creek	32	2N	42E	6820
10F6	Wy	Four Mile Meadows	35	45N	112W	7860	11F15	I	Lava Creek	27	1S	42E	7350
10E13	Wy	Glade Creek	12	48N	116W	7040	11F14	I	Mud Creek	4	2S	39E	7100
10F18	Wy	Greys Boundary	33	37N	118W	5720	11F11S	I	Sheep Mountain	30	2S	41E	6570
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750	11F5	I	Tex Creek	36	1N	41E	6650
10G3	Wy	Grover Park Divide	27	33N	118W	7000	BLACKFOOT RIVER						
10E14	Wy	Huckleberry Divide	32	48N	115W	7300	11G35	I	Allen Ranch	28	7S	43E	6470
10E9S	Wy	Lewis Lake Divide	44°12'		110°40'	7850	11G3	I	Austin Brothers Ranch	28	7S	43E	6400
10F4	Wy	Moran	19	45N	114W	6750	11F17	I	Blue Ridge	35	2S	39E	6780
10F3	Wy	Moran Bay	14	45N	116W	6810	11G36	I	Johnson Creek	4	9S	43E	6730
10G6	Wy	Poison Meadows	29	30N	116W	8500	11G5S	I	Slug Creek Divide	15	10S	44E	7225
10G8S	Wy	Salt River Summit	32	29N	118W	7700	11G1S	I	Somsen Ranch	25	5S	43E	6800
10E12	Wy	Snake River Station	9	48N	115W	6920	11G31	I	Sulphur Peak	8	9S	43E	7070
10F20	Wy	Snow King Mountain #3	4	40N	116W	7660	11G37	I	Wood Canyon Divide	5	9S	43E	7450
10E7	Wy	Thumb Divide	44°22'		110°34'	7980	FORT PORTNEUF RIVER						
10F9S	Wy	Togwotee Pass	28	44N	110W	9580	12G21	I	Beaverdam Creek	22	10S	38E	6120
10F5	Wy	Turpin Meadows	14	45N	112W	6900	12G16	I	Cold Springs	15	7S	37E	7000
10G1A	Wy	Young's Ranch	26	34N	116W	6650	12G5	I	Dempsey Creek	18	10S	38E	6100
HENRY'S FORK RIVER							11G34	I	East Creek	26	10S	38E	7000
11E9	I	Big Springs	4	13N	44E	6400	12G6	I	Lower Pebble	7	8S	38E	5780
11E35S	M	Black Bear	27	15S	5E	7950	12G1	I	Mink Creek	33	7S	34E	6410
11E18	I	Black Canyon	11	13N	45E	7960	12G20	I	North Putnam	29	5S	37E	7240
11E19	I	Black Moose	33	14N	45E	8160	12G2	I	Pebble Creek	35	7S	37E	6400
110E15S	Wy	Grassy Lake	18	48N	116W	7265	12G14	I	Putnam	2	6S	37E	7220
11E10S	I	Island Park	28	13N	43E	6290	11G30	I	Sedgwick Peak	30	10S	39E	7850
11E16	I	Latham Springs	9	13N	45E	7630	12G15	I	Toponce	23	6S	37E	6160
11E14	I	Lucky Dog	2	13N	44E	6860	12G19	I	Twitchell Canyon	21	5S	37E	6300
11E32	I	Sawtell Mountain	7	14N	43E	8720	12G17S	I	Wildhorse Divide	4	8S	34E	6490
11E34	I	Targhee Pass	32	16N	44E	6980	TETON RIVER						
11E8	I	Valley View	12	15N	43E	6680	10F21A	Wy	Darby Canyon	28	43N	118W	8250
11E36S	I	White Elephant	17	14N	43E	7710	10F22	Wy	Freds Mountain	12	44N	118W	8000
							10F25	Wy	Indian Meadows	33	46N	117W	8240
							10F26	Wy	Jackpine Creek	15	46N	118W	7350
							11F12	I	McRenolds Reservoir	5	7N	46E	6720
							10F23S	Wy	Phillips Bench	43°31'		110°55'	8200
							11F2	I	Pine Creek Pass	24	3N	44E	6810
							11F1	I	State Line	32	3N	46E	6660
							10F24	Wy	Teton W. S.	43°30'		110°59'	7740

### LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

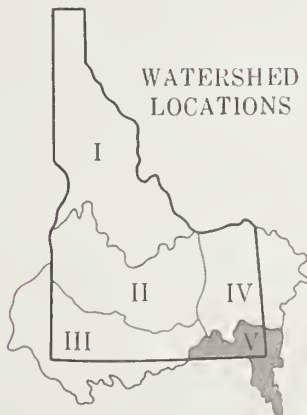
# GREAT BASIN



## LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- † Aerial Snow Depth Gage
- └ Precipitation Gage

## WATERSHED LOCATIONS



# INDEX to SNOW COURSES

## GREAT BASIN

No.	State	Name	Sec.	Twp.	Rge.	Elevation
			Lat.	or And	Long.	
BEAR RIVER						
10G11	Wy	Big Park	7	27N	117W	8620
11H13S	U	Dry Bread Pond	19	8N	4E	8350
11G7	I	Emigration Canyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	25	1N	9E	9400
10G12S	Wy	Kelly Ranger Station	1	26N	118W	8200
11H12P	U	Monte Cristo R. S.	4	8N	4E	8960
10G19	Wy	South Thomas Fork	27	27N	119W	7840
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

## MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G33S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G26	I	Upper Home Canyon	31	11S	45E	8560

## MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	I	Strawberry Creek	9	13S	41E	5820
11G10	I	Strawberry Mink Divide	14	13S	41E	6720

## CUB RIVER

11G12	I	Cub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G32S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620

## MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	I	Lower Elkhorn	30	12S	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	13S	37E	6740
12G10	I	Upper Elkhorn	25	12S	35E	7140

## LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage



## **GOVERNMENT AGENCIES**

### **State**

Idaho Department of Water Resources  
Oregon State Engineer and Corps of State Watermasters

### **Federal**

Montana Cooperative Snow Surveys  
Nevada Cooperative Snow Surveys  
Oregon Cooperative Snow Surveys  
Utah Cooperative Snow Surveys  
Wyoming Cooperative Snow Surveys

U.S. Army Corps of Engineers

U.S. Department of Agriculture  
Forest Service

U.S. Department of Commerce  
NOAA, National Weather Service

U.S. Department of Interior  
Bureau of Reclamation  
Water Resources Division, Geological Survey  
Shoshone-Bannock Tribal Council

### **PUBLIC UTILITIES**

Washington Water Power Company  
Idaho Power Company

## **ORGANIZED PUBLIC AGENCIES**

Big Lost River Irrigation District  
Blaine Soil Conservation District  
Boise Project Board of Control  
Idaho Water District #01  
Little Wood River Irrigation District  
Salmon Falls Creek Irrigation Company  
Twin Falls Soil Conservation District  
Big Wood Irrigation Company  
Owyhee Project - North & South Board of Control  
Valley Soil Conservation District  
Portneuf Soil and Water Conservation District  
East Cassia Soil and Water Conservation District  
West Cassia Soil and Water Conservation District  
Camas Soil and Water Conservation District  
Lewiston Orchards Irrigation District

### **PRIVATE ORGANIZATIONS**

FMC Corporation  
Cyprus Mining Company  
Les Bois Resort

*Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.*

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SOIL CONSERVATION SERVICE

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with the Snow Survey"*

DR. A. RANGO, CHIEF HYDROLOGY LAB  
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